

THE RACIAL HISTORY OF INDIA

CHANDRA CHAKRABERTY

VIJAYA KRISHNA BROTHERS

81, VIVEKANANDA ROAD

CALCUTTA

PREFACE

India is a living Museum of Races. No doubt no people is unmixed except in some remote corners of the earth. Every nation is a blend of different racial elements. But in this country different races live together in stratified orders with intermingled intruding bands between them in one pulsating human mosaic Caste formation has been the sequence to demarcate the racial distinctions Cultural intercourse and the marches of conquering armies for millenniums have not been able to obliterate all the distinguishing racial marks and amalgamate and fuse them into one undifferentiable mass. Yet unfortunately no racial history of India has been written though materials abound Indian racial question is a fascinating puzzle of great absorbing intellectual interests as its solution will solve many baffling and mysterious riddles of racial migrations of mankind In this book I have attempted to discover the integral components of our racial complex with their historical background There may be many controversial points that have here been summarily dealt with which may not find ready acceptance in many circles I have simply presented the problems before the scholars for their discussions and some of their solutions I have thought reasonable. If they are to be accepted corrobolatmg evidence will be welcome whenever necessary If they are to be rejected the basic foundation on which the whole structure has been built upon has to be systematically undermined with shattering logical explosives. If main issues prove to be correct a few small errors which are inevitable in such an undertaking can easily be rectified. If it evokes impelling interests among scholars my purpose will be served I invite constructive criticism-no meaningless leer or empty applause

THE RACIAL HISTORY OF INDIA

1. PHYSIOGRAPHY OF BHARATAVARSHA

Some billions of years ago a big star, bigger than our sun, passed by our sun. Their mutual gravitational pulls raised a large tide in our sun And as the star passed away into distance, it left a cigar-shaped gaseous matter torn from our sun The cigar-shaped gaseous filament cooled into separate massesthe planets Mercury is the smallest planet near the sun Similarly is the shape of Pluto at the other end Jupiter is the largest mass in the centre The gaseous matter being condensed formed into planets round our sun Mercury is too small to prevent gases from escaping into space. The sun's pull has reduced Mercury to showing always the same face to the sun, and the planet's day is equal to its year about 88 days is larger Its dark side has a temperature of-25 C which indicates it has some atmosphere, but it is devoid of oxygen and has little water-vapour The Earth is bigger To an observer on the moon, it would appear at full earth forty times as bright as full moon to us with fleecy areas of cloud over a blue ground From Venus the Earth would appear at its brightest six times as bright as Venus at its brightest appears to us, the moon would look as bright as Jupiter, and the Earth and the Moon would look like twin planets—the Earth bluish and the Moon yellowish Mars is smaller than the Earth being 4,215 miles in diameter A body weighing 50 kilos on Earth would weigh 19 kilos on the Mars which presents a ruddy disk. Mars has 15 pc of Oxygen and 5 pc of water vapour of the earth's atmosphere. Its day is 24 hours, 37 minutes and 22 58 seconds In the equatorial region it has a temperature of 10°C and - 70°C at its polar caps. Mais has two satelites—Phobos, ten miles in diameter and Deimos about 5 miles in diameter. After Mars

the remnants of the smashed planet by the gravitational pull of Jupiter, now known as Asteroids are found Jupiter is a huge planet 88 640 miles in diameter at the equator It rotates in 9 hours and 53 minutes. Its outer surface temperature registers—
140 C. It has a density of 184 times of water which indicates it
has an iron core surrounded by a mantle of carbon dioxide ice Saturn rotates m 10 hours, 14 minutes and 24 seconds It has a density of O 715 of water Its equatorial diameter is 74,100 miles So the centrifugal force is very great at the equator no less than 017 of the gravitational pull. Just by the whirling process one loses on Saturn I of his weight. Its surface temperature is -15 C. It seems it has a metallic core like the Jupiter and sheathed in Carbon-dioxide ice. The comparative higher temperature though far off from the sun is due to some radio-active substance. Uranus is 1 27 times as dense as water. It rotates in 101 hours and its surface temperature is about -180°C Neptune has a density of 16 with a surface temperature of -200 C Pluto at the distant end has a surface temperature of -240 C and revolves in 240 17 years. Its shining magnitude is 15 5. In spite of the low luminosity it is six times heavier than the Earth and 20 times as heavy as water. The density of Earth is 5 5 times that of water The rock of the Earth is only 27 tims to that of water And the Earth acts as a magnet, as the materials of the earth condensed, heavy metals—iron and nickel—fell into the interior and has formed the core. Under high pressure though the temperature is very great it acts like a solid body

There are about 2000 000 (two million) Island Universes hurling through the tenuity of space at the speed of about 1000 miles per second. They are scattered through space fairly evenly and they appear as nebular The immense speeds at which the extra galactic nebular recede from each other (300 to 1800 kilometers per second, one to two million miles per hour) may be due to the continuous expansion of space like that of a seaf bubble. It has been estimated that space doubles its radius every I 400 000 000 years. All the stars visible to the naked eye (about 3000) are members of our local universe. It is a disk-shaped galaxy of stars which becomes apparent when

we look at the Milky Way which is its iim. Within our galaxy there are numerous nebulæ—shining volumes of exceedingly tenuous gas—diffuse stars, that is stars in formation. It is estimated that our galaxy rotates once in 300,000,000 years.

Extra-galactic island universes appear as nebulæ at vast distances from each other, and not only from our local universe The greatest of them, The Great Nebula of Andromeda containing thousands of millions of stais, appears to us as a fourth magnitude star, dimly visible to our naked eye Its dimness can be easily explained that it is about 800,000 to 1000,000 light years distant from us Nearly all of the two million extragalactic island universes are fainter than Andromeda Nebula. Assuming that they are of the same size and shine with the same bulliance, ordinary calculation proves that the faintest of them must be at least 140 times further away than the Andromeda Nebula, that is, about 140 million light years away from our earth About 97 p c of the island universes are disk-shaped with a dominating shining material in the centre, surrounded by coiled spirals, consisting of stars The light from the core is like that of the sun, while the light from the edges is usually bluer. But every nebula of different shapes and valious number of stars, valying from 10,000 millions to 100 million stars, gives almost identical light, for collective light from such vast distances hardly varies

Brillance	Star	Color	Surface Temp.	Weight	Density	Diameter
1	Sun	Yellow	6000°Č	1	141	1
1200	Betelgeuse	Red	3,100°C	15	6×10^7	290
100	Arctulus	Orange	4,300°C	8	0003	27
80,000	Conopus	White	11,000	100	0001	100
18,000	$\operatorname{Rigel}^{ ilde{ ilde{}}}$	Bluish	16,000	60	002	30
3400	Antares	Red	3,100	30	3×10^7	450
26	Smus	\mathbf{W} hite	11,007	24	42	18
.003	Dark Com-	White	7500	96	27,000	034
panion of Sirius						

How is it that the dark companion of Sirius has a density of 27,000 times that of water? A Star discovered by Van Moanen has a density 400,000 times that of water. Atoms are

bulky objects for their weight as their nucleus is surrounded by electrons at great spaces spart. Under a very high temperature and pressure in certain stars atoms lose their rings of electrons so the nuclear masses are enormously packed close together. Therefore it is easily conceivable that the dark companion has such a great (27000 times) density. Under great pressures even gaseous matters of very high temperature can be solid. In variable stars pulsation may be due to stars tending to split into two under the influence of its own centrifugal forces. This is only possible if the stars have liquid like cores.

Hydrogen atom contains the nucleus—proton and an electron. Electrons can be obtained when the Hydrogen atom is ionized Hydrogen atom divested of its electron consists of a single minute positively charged particle—proton—nearly 2000 times heavier than electron—the negative charge When the metal Beryllium is bombarded by the a particles from Radiun, it is found to emit particles which have the same mass as a proton but without any electric charge for which these are called Neutrons From interstellar space cosmic rays are found—positively charged particles with the same weight of electron they are called Positrons in interstellar space heavy atoms are formed, and Positrons are their by products. Positrons can also be produced when artifical radio elements emit their radiations and when very short wave X rays act on matter.

| Atomio | Mass | Electric Charge | Atomic | Mass | Electric Charge | Protons | 1 008 | +1 | Electrons | 1 008 | -1 | Neutrons | 1 008 | 0 | Positron | 0 00054 | +1 |

Nucleus is a group of Protons and Electrons very closely bound together Carbon nucleus contains 12 Protons and 5 Electrons 2 electrons in the central ring and 4 in the outer ring Hydrogen stom has a nucleus of one Proton with an electron revolving round it Helium atom has 4 Protons and 2 Electrons revolving round them if 2 electrons of the outer ring are knocked out, it forms heavy Hydrogen—the source of Heavy Water Sodium stom contains 13 Protons and 12 Electrons there are two outer electrons near the nucleus eight

other further away and one lonely electron on the outside Chlorine atoms are of two sorts. One kind has a nucleus of 36 Protons and 18 Electrons, 2 electrons near the protons, 8 in the central ring and 7 in the outer ring. The other kind has a nucleus of 37 Protons and Electrons. Sodium and Chlorine combine together easily and make a stable compound—Common Salt. Potassium has a nucleus of 39 Protons and 20 Electrons, 2 electrons near the protons, 8 in the central ring, 8 in the next ring and 1 in the outer ring. It seems atoms which have sets of 2, 8, or 18 electrons on their outsides are chemically inert. But all atoms with one outer electron as Sodium or Potassium are chemically very active.

The universe is finite but unbounded and bends back on itself like the earth's surface. It has been proved that light comes back to its starting point, as one can come to Calcutta from Chicago either by the Pacific or Atlantic route. The Nebula M in Triangulum, is 750,000 light years distant. The Great Nebula in Andromeda, the best known of the nebulæ, as it is visible in unaided eyes, is 800,000 light years distant. If these nebulæ are observed in both directions with telescopes, they can be seen as small and dim objects.

Roughly a ton of blicks occupies a cubic yard, while the millions of particles which form this ton of bricks occupy only about a cubic inch. The particles of the brick hold one another at distance through the repulsive negative electrical force they exert on one another. This explains why the dark companion of Sirius is so heavy. It consists of closely packed atoms, divested of their electrons. The Sun is 303,000 times as heavy as the earth and it is about 1,300,000 times as bulky, the Sun weighs 2,000, 000,000, 000,000, 000,000, 000,000 metric tons. The earth weighs 6,576,000,000,000,000,000,000,000 metric tons.

The Earth began to rotate round the Sun as its satelite And with rotations it became globular, dissipating heat in the space With the loss of heat it began to contract. Thus in course of millions of years it lost sufficient heat to be a fiery liquid globe of buining, fuming lava, surrounded by a thin coat of

gaseous atmosphere whirling in space round the Sun About 400 million years were needed to reduce the surface temperature of 6000°0 to 200°0 to permit the solidification and formation of crust. The surrounding gaseous atmosphere being cooled down by dissipation of heat would preopitate on the crust showers of liquid fiery elements unable to keep them longer suspended in the aerial mass. Then there would be formations of hot steams, furrowed by incessant lightnings. There would be showers of boiling water to be evaporated rapidly from the fiery crust of the burning lava. Boiling waters would collect in lava fissures and depressions. Water having a great solvent action washed away the salts from the rocks and brough them into the rivers and finally into the ocean. The denuded materials formed the basis of the sedimentary rocks of the later ages through pressure and heat. They formed the wide river valleys and plains by their deposits of silts.

The Archean represents the first solidified crust of the earth as it cooled from its original molten condition. The Archean rocks are a mixture of genisses granites and schists-crystalline in structure Peninsular India is Archean Its rock beds are horizontal and show hardly any trace of folding. This segment of the earth's oldest crust was connected with Africa, South America and Australia, forming one unbroken section of the shell Ocean waves rolled over Japan, China, Tibet Himalayas, Baluchistan Iran Arabia Northern Africa and Southern Europe. Aravallı was its southern shore. There was an Antarctic southern Ocean on Assam coast The scenic charms of the Aravallis, the Vindyas the Nilgiris and Palni Hills are due to the uneven denudation and weathering of the Archman crusty wrinkles. They are the relics of the primitive higher ridges that have been worn out and are the outstanding portions of the ancient plateau that have escaped the weathering of ages that has denuded the rest. Its rivers have broad shallow valleys with low gradients, for their channels have reached the base level of erosion. The Archman rocks cover over three quarters of a million square miles of Peninsular India—Madras Mysore Orissa, Central Provinces Santal Parganas and Rapputana up to

	,			
,	· •			
				t
		ì		ı
			u .	
			-	

system contains mexhausible mines of building stones of great beauty and durability. In Upper Vindyans and in the dykes of Cuddapaths Golkonda diamonds were formed. At the end of the Vindyan Period, the Aravallis got their greatest uplifts. Now it is but worn out and denuded remnant of a high and grand Mountainous Chain.

Palæozoic system is unrepresented in Peninsular India, for it does not show any sign of ever being submerged under the But in Indo-Gangetic depression and in the Himalayas which were under deep ocean known as Tethys connecting the Mediterranean and the Antarctic there are excellent representations It is called in Indian Geology the Dravidian Era In the Salt Range there are Cambrian 250ft magnesian sandatones and sandy dolomites with Stenotheca 100ft Neobolus shales with brachipods-Redlichia and Slenellus 450ft, purple sandstone. In Kashmir 7000 feet clays limestones are found with Obolus Acrothele Lengulella in Lower Cambrian, and with Agnostus, Anomocase Concorrypher in middle and upper Cambrian In the Spiti valley of Central Himalayas there are 2000ft Cambrian dolomites red and black states with Olemus Microdiscus Languiella In the snow-clad Himalayas for which it is called Haimanta (snowy) System, the base is fixed at an horizon of conglomerates which is exposed only in the Kumaun end of the range the conglomerate is overlaid by greenish phyllites states and grits with obscure fossils the uppermost division of the Haimantas consists of alternating bods of quarzite and shale with narraw bands of dolomitic limestone which are more important at the summit the shaly beds include several Oleensdae tralobstes of Upper Cambrian The dolomitic limestones are covered by red slates over which a conglomerate demarcates the Cambrian from the succeeding Ordovician strata In the Spiti valley there are 2000 ft Silurian coral limestones and dolomites with *Cystoids* and *trilobites* In the Lidar valley of Kashmir there is 100 feet of Silurian rock containing *Orthis* and Illasmus In Kumaun over the Calymene Phacops Ordovician coral limestone there are Silurian beds of red grits and quartzites with overlying shales and limestones containing upper Silurian coral fossils-Halysites Catenularia These beds

in the subsidence of large tracts where thus basin shaped depres sions were formed in the Archan rocks These depressions were filled with land and river sedimentary deposits of denudation, known as the Gondwana System, for they are found in the Gond territorry south of Narbada These deposits with the drift of the dense forestation of Central India which has formed coal seams 20 to 80 ft thick at the base-the main source of Indian Coal supply-are prominent in the Damodar Godavari and Mahanadi valleys and in Satpuras in smaller patches The Damuda Series which contains the most valuable coal deposits of India is nearly 10 000 ft thick and is overlain with Panchet Series of micaceous sandstones of greenish colour with rich reptilian amphibian labyrinthodonts fossil bone yields. A prolific Glossopters flora with seed ferns—Gangamopters Glossopters and Cordastales of the lower Gondowana has closer affinites with the Mesozoic plants of Europe than with the plants of upper Paleozoic coal measures The Glossopteris flora of Damuda Series closely resemble the fossil plants of similar formations of South and East Africa, Brazil Argentina and Australia Not only the fossil plants correspond to each other the fossil bones of labyrinthodonts and reptiles of the Panchet series are similar in corresponding beds of South Africa thus indicating land connection While the plants of Lower Gondowana include equisetaceous forms, upper Gondowanss show the prevalence of Cycods and confers thus indicating a change of climate and evolution of plant forms. Fishes and labyrinthodorits are also succeeded by rentiles The Satpura Gondowana known as Mahadeva or Pachmarhi Series consists 10 000 ft. thick sandstones The Godavari Gondowana, known as Kota Maleri Series has a rich deposit of coal associated with the fossil fish Ceratodus and the reptiles Parasuchus and Hyperodapedon Tho Raymahal's shally sediments contain a number of fossil plants including angiosperms interbedded with basaltic lava sheets of thickness of over 2000 feet. The Rajmahal lava flows are of thickness of over zoo teet the halinant lars flows are often amygdaloidal like those of Deccan trap series the cavities yielding agutes and zeolites of considerable variety and beauty. The highly evolved fossil angiosperms also indicate a later period of geologic age—Jurassic or lower Cretaceous

A similar age is indicated in the Umia beds of Cutch which has a thickness of nearly 6000 feet containing marine intrusions of Trigonia and ammonites of lower Chetaceous with the plant flora of Rajmahal angiospeims. In the highly fossiliferous limestones of Jaisalmer. Bikanci and in the western part of Salt Range similar marine fossils of Trigonia and ammonites have been found. The salt Range has beautifully preserved the marine fossil fauna from the Carboniferous up to the Triassic through the rich mosaic of the Permian. The base of the Salt Range contains glacial ice-scratched, striated and faceted boulders of Archivan locks from Aravallis embedded in a silty matrix. This boulder bed is overlaid with conulain sandstones containing Eurydesma and other fossils, quite similar to those found on the glacial boulder beds underlying the coal seams of New South Wales On the top of it are mottled sandstones and clavs with well preserved fossil impressions of Glossopteries and Gangamopteries, the common and luxuriant genera of Lower Gondowana On this is overlaid the 700 ft thick deep maine Productus Limestone containing the brachipods-Productus spiralis, P semireticulatus and P cura On the upper layer of Productus Limestone there are numerous fossils of Triassic ammonites—Cyclolobus, Medlicotlia, Popanoceras, Tacniceras and Arccestes. Pangal volcanic series of Kashmir are interhedded with Productus Limestones and fossil impression of Glossosteris as Gangamopteris flora, nearly 8000 feet thick

Immense and deep troughs were formed in the ocean floor of the Tethys which were filled with fossil faunas of lamellibranchs, crinoids and ammonites to the height of thousands of feet, representing the Permian, Trias, Jurassic, Cretaceous and Eocene periods. The Himalayan marine fossil fauna are similar to those of the Alps and other European Mesozoic areas, thus showing that the same ocean flowed in both these distant zones. These heavy loads disturbed the equilibrium of the crust, which thus being bent wrinkled up to foim the mountain chains—the Alps, the Caucasus and the Himalayas. Permian Productus Sirban limestone of Hazara, Kiol limestone of Simla-Chakrata, nearly 3000 ft thick. Triassic cerated beds of Salt Range, and limestone and dolomites of Kashmii, Spiti Garwal

and Kumaon, about 5000 ft thick. Jurassic Kioto limestone and dolomites overlain by Spiti shales from Hazara to east of Nepal about 4000 ft thick Cretaceous Giuman series of Spiti Hazara and Kala Chitta Chikkim series of white limestone and shales of central Himalaya Para limestone and Pah sand stone of Sind volcanic series of Burzil as Deas of Kashmir about 6000 ft. thick. The marine upper Cretaceous Bach Beds in the lower Narbada vallay contain fossila, particularly the echinoderms, which show striking resemblances to those of Cretaceous beds of Syria, North African and Southern France all paches of limestone deposits in the great ocean of Tethys of which the modern Mediterranean is but a shrunken relic The Lameta Beds are a narrow zone of fresh water and estuarine heds of the upper Cretaceons covering a wide area underlying the Deccan trap the fossil remains of 12 genera of Dinosaura. particularly of large Titanosaurus indicus have been preserved in them In Jurassic and Cretaceous period there was an intrusion of the sea in Cutch which penetrated up to Jaisalmir In Cutch nearly 6000 feet of fossiliferous limestones were formed of a diversified but local cephaloid fauna. 114 generas and 600 species of ammonites have been identified of purely local evolu tion, as their types are unknown elsewhere Of others fossils show no affinities with the Tethys deposits but show some kinship to the Jurassic faunas of Madagascar Trichinapoli coast was submerged and covered with 2000 feet of fossiliferous grits and sandstones in which have been preserved the fossil bones of Megalosaurus about 1000 species of marine molluses the majority of them being ammonites disclosing close relation ship with the Cretaceous of Madagascar Natal Borneo Japan Sakalın, California Vancouver and Chili but unlike those of Bagh beds We have thus a contrast between the Mediterranean Atlantic Cretaceous shore of Northern and Western India, and a Pacific shore And Assam, Trichinapoli and Natal Cretaceous beds show a distinctly littoral character

In the Ecome great earth movements took place about 60 to 70 million years ago Deccan Sind, Baluchistan became subject to great volcanic outpourings for a long period but with in termissions Basaltic lava covers a large track of Deccan which thus has been converted into a plateau, several thousand feet high (Deccan Tiap) The weathering action of ages has shaped this trap formation into numeious steep-sided clips and square crested flat-capped peaks which were utilized by Mahrattas in their historic fight for freedom as hill fortresses and as petrified giant sentinels. The plateau has the elevation of about 3000 feet. In the dissected sides of these ghat-shaped hills there are piles of bedded basalts, in 20 to 80 feet thick houzontal flows, separated by their sedimentary deposits—intertrappean beds These inter-trappean beds contain fossils of many fresh-water lake moluscs, frogs and fishes, numerous reptiles, animals, palms and flowing plants that migrated, grew and multiplied, during the long intervening periods of volcanic quiescence The Deccan tiap magma is generally undifferentiated basalt or dolerite But in Pawagarh Hill near Baroda and in Girnar Hill in Kathiwar ultia basic variations of magma are met with in their intrusive and extrusive forms, and numerous zeolitic and secondary minerals are found in their vesicular cavities and interstitially in the lavas Swarms of dykes of dolerite traversing the bedded lava flows for long distances and extending through the bordering terrain, as noticed all along the periphery of the Deccan trap, denote the volcanic fissures In Sind and Baluchistan the interbedded flow of undifferentiated amygdaloidal lava is associated with fossils of Cardita beaumonti which in Europe are found distinctly in Teitiary formations. It is related with the Tertiary gabbro, peridotite and grandphyre intrusions, chromite segregations of the Quetta and Zhob districts and serpentinized peridotites with their embedded valuable mineral jade of Burma The stupendous volcanic irruptions coincided with the lifting of the Alps, Pyrenees, Caucasus, the Himalayas and Tibetan plateau which were being built by the skeletal remains of marine animals of Tethys lifting of the great mountain chains brought about the sinking of the great slices of Gondwanaland that extended from India to Australia through Africa and South America, into the fluid magma below as a process of compensation, virtually splitting up the Western Ghats at the water-parting, and floating and diffing away Western Africa from Central and South America that fit well into each other In all four continents--India, South

and Western Africa South America and Australia—plants primitive ferns (Glossopteris) and primitive conifers (cordiates). Horse Tails (calametes) - and reptiles - Pareissaurus Tyrannosaurus Endothiodon Cynognathus and Theromorphs belonging to the Eocene period have been found in fossil forms. It is known that between the Seychelles which are connected by comparatively shallow waters with Madagascar and Africa and the Maldives which are on the Indian continental platform. there exists a submarine bank the remains of the old continent. depressed sufficiently to cut off India from South Africa, but still enduring as a link and a barrier of preventing the cold Antarotic currents to extend to the depressions of the Arabian Sea. Sevchelles are granite islets—peaks of a great submerged range that was connected with the Aravallis, quite unlike Zangbar and Pemba which are coral islands Though the Bed Sea and the Arabian Sea are largely coral seas, bounded by coral islets and reefs but the South Arabian coast and Kuria Maria Islands are stratified cliffs, devoid of coral life The 10 000 ft, submarine ridge which runs southwest to Socotra is but the submerged continuation of the now much-denuded Aravalli Range The drifting apart of South America from Africa looks also apparent if one carefully looks at the map Brazilian Pernambuco promontory fits closely into the Cameroons Bight of Biafra Senegal projects into the Amazon basin The hydrographical inference indicates that the eastern half of a far wider land area of which the main water parting was nearly coincident with the Western Ghats, and the rivers flowing westward thereof, has disappeared with the submerged land they had intersected All the great rivers of Deccan take their rise in the Western Ghats and flow across the peninsula into Bay of Bengal Only Narbada and the Tapti cut their way in deep channels into the Arabian Sea. Deep channels butray their recent evolution as old rivers always have broad and open valleys with gentle slopes According to some scholars especially Wegener all the land areas of the globe were once directly united together into one continental mass. The two Americas lay much further to the east while Europe and Africa lay further west Greenland Iceland and the British Isles were all much closer together and were wedged between Canada and

1

Scandinavia South America fitted into the great angle in the west coast of the African continent. Australia and Antaictica lay close up against the south-eastern coast of Africa with the southern tip of India in contact with Madagascar and wedged in between the African and Australian blocks, and South. Pole was somewhere in Cape Colony

The volcanic irruptions of Deccan, the splitting up and sinking of the larger part of the western continental part of the Western Ghats that connected India with Africa and Australia, and the uplifts of the Himalayas are the principal events of the Eocene It caused great ever-widening fissures in the crust The great Rift Valley of Africa is still in its unfinished stage. The Red Sea Rift has become 200 miles wide. The Himalayan uplift created a depression—a fore-deep—at its foot This fore-deep lay between the folded half of the Himalayas and the Peninsulai nigid shelf-the Anavallis, Vindyas, Hazaribagh, Rajmahall Hills and Assam Range There can be no doubt that this Himalayan fore-deep extends far below the sea level, though since its formation it has been filled up by the deposits. This may be as deep as 40,000 ft but not certainly less than 20,000 feet 1n the upper Eocene time this wide trough was a gulf of the sea It is known as the Indo-Gangetic Depression As it was gradually filled with the sedimentary deposits from both the mountain ranges, the sea slowly retreated, leaving behind as a memorial highly fossiliferous nummulitic massive limestones extending from Namital to the Kala Chitta Hills, known as Kirthir series of the Punjab, N W P and Sind, about 6000 ft thick, and Jaintia series of Assam By the sedimentary accumulation the Indo-Gangetic Depression, the remnant of the ancient Tethys, was reduced into two gulfs. The Sind gulf extending north through Cutch, Punjab, Simla and Nepal, and the gulf of Assam and Burma, separated into two by the meridional nidge of Anakan Yoma. Then a Himalayan niver (Biahmaputia) tiaveising from Assam the entire Indo-Gangetic depression emptied itself into the Sind gulf. In this river system Nari series of Sind, Baluchistan and Cutch, Barail series of Assam, Gaj series, Surma series, Murree series, and Siwalik system were formed In the Name series, about 6000 feet thick.

the lower deposits are marine limestones with foraminifera and upper deposits are fresh water sandstones of Oliogocene In the Gaj series nearly 15000 feet thick marine limestones overly fresh water strata with land mammals of Miocene indicates that the Murree Hills were submerged and later uplifted The rock-salt coal and petroleum are associated with the Eccene and Miccene of the Punjab Assam and Burms The rock salt occurs to the depth of hundreds of feet in the Laki series of the Salt Range in the adjacent Kohat and Mandi areas where from more than 170 000 tons of salt are mined annually many orthodox Hindus particularly their widows, use no other salt but this. About 450 000 tons of coal are mined from the Ranskot-Laks coal deposits From the Khaur and Dhulia nummulitic limestone overlying Murrees nearly 15 million gallons of petroleum are mined. Burma Miocene denosits supply more than 250 million callons of netroleum annually and Assam about 53 millions per year

Siwalik system, about 16000 feet thick, is a river deposit formation of the debris brought down from the uplifted Himalayas by the numerous transverse rivers and deposited in the valleys of the lower Hunalayas by the north westernly flowing river Bhramaputra. It is a continuous formation from Nepal through the Punjab where the width is greatest to Sind remarkable for the abundance of mammalian fossils Out of 64 genera of mammals which have been identified among the Siwalik fossils, 39 have species still living while 25 are now extinct. Among the reptiles only two out of 12 genera are extinct while all the birds and fishes whose fossils have been examined and identified belong to living genera. The more noteworthy is the fact that Siwalik has preserved the fossil remains of a dozen different kinds of great anthropoids. It belongs to the early Phocene age which is corroborated by the stratigraphical similar deposit (about 20 000 feet thick) of the Irrawaddy system whose marine beds of Miocene Age are placed beyond doubt by their fossil contents Out of the 26 memmalian fossil remains, 18 have been determined of which 11 are identical with forms found in upper Silwaliks It should be remembered that identifying a fossil animal is not always an easy task. Seldom the entire

skeleton of an animal is found, and rarely entire unkroken bones or the whole skulls. It is mainly by the teeth, the structure of the jaws and skull, the species of the fossil remains are identified Rather the peculiarity of the teeth is the best guide The scientific names of fossil animals are often made after the nature of their teeth. Thus Mastodon is fashioned after the Greek word, meaning, mammillated teeth, Stegodon meaning 100f-shaped teeth, Loxodon, meaning, oblique-ridge teeth The modern elephant has lost all his front teeth, except two upper ones which have grown into tusks. He has no conines or eyeteeth As for gunding teeth, he has not more than one or portion of two visible, on each side of each jaw. The guinding teeth of elephants have from 12 to 16 transverse ridges. In Stegodon there are from 6 to 8 transverse ridges, an in Mastodon usually 3 or 4. Thus an ancestor of Mastodon, called Tetrabelodon, has tusks in the lower as well as in the upper jaw, and there are three visible grinding teeth on each side of each jaw, instead of the single tooth or poition of two visible in the living elephant Tetrabelodon and Dinotherium are found in Siwaliks from the Kamlial to the Dhok Pathan (Lower to Middle Siwaliks) sandstones But in Dhok Pathan beds, these two animals are found with Mastodon and Stegodon. In the Tatrot sandstones of upper Siwaliks no specimen of Tetrabelodon and Dinytherium has been found They became extinct, leaving behind a modified descendant Mastodon Mastodon also died out, as it is not found out in the upper strata--Pinjai sandstones -leaving behind Stegodon and the still living genus Elephas The Elephas of the Pinjor sandstones is not however the modern Indian type, but is very close to the living African species The modern elephant is not found in fossil, but is closely allied to the extinct Mammoth of Northern Europe Though Mastodon became exient in Siwaliks, it persisted in North America right into the glacial period. The Indian elephant (Elephas maximus) frequents hilly forested regions, covered with bamboos and plantain, particularly in Mysore and Burma The Indian Rhinoceros (Rhinoceros unicornis) has one horn (Skt. eka-sringa - Monoceros - unicorn) It has two front teeth above and four below, the two front teeth are really cannes which have moved forward. There are 7 cheek teeth on either side of either jaw as in a pig But the

pre-molar is often rudimentary and falls away early. The Javan rhinoceros has 2 front teeth above and 2 canines (which have moved to a forward position) below and 6 visible cheek teeth on either side of each law It has two horns-a well developed nasal and a small frontal horn. The African rhinoceros has two well-developed horns at has lost ats front teeth and canines but retains the regular number of cheek teeth. In the Lower and Middle Siwaliks there is an abundance of the fossils of Acertherum but it had the same number of teeth of the Indian Rhinoceros but had no horn. In the Dhok Pathan heds there is Rhinoceros sivalensis an ancestor of Javan Rhinoceros Burma a fossil of rhinoceros has been found in a bed older than Siwalike having a regular number of incisors or front teeth in the upper jaw In the upper Siwalike the ancestor of the Indian Rhinoceros-Rhinoceros palmindicus -has been found also Rhinoceros platyrhinus resembling the square mouthed African Rhinoceros (Rhinoceros simus) In the Bugti Hills of Baluchistan (earlier than Siwaliks) and Eccene bone-beds of Burma 90 p c of the specimens were of Anthrocotheres Anthrocotheres were piglike snimals The primitive Anthrocotheres had teeth with isolated tubercles like those of the pig; but later developed crescent shaped connecting longitudinal ridges characteristic of the grass-eating animals In the Kamlials they are much reduced in number and in higher beds entirely absent but replaced by Listriodon a similar piglike animal, but with united tubercles of the teeth to form transverse ridges. The wild boars allied to the modern type are found in the Nagri beds of middle Siwaliks and continue to be in the upper strata. The ancestor of the African river hogs is also in the Siwalike Mery coptamus ancestor of the Hippopotamus, is found in the Middle Siwaliks Hippopotamus is found in the Dhok Pathan bods and is abundant in the upper Siwaliks But the Indian species had more front teeth than the living African hippopotamus-the water pig The Indian wild Boar (Sus cristatus) lives in grass) bushes all over India The pigmy Hog (Porcula salvania) is found in the Himalayan foot hill forests of Nepal Sikhim, Bhutan and Assam The Anadaman pig (Sus andamanicus) a small animal, is found in the coastal fringe of the island Hippopotamus is extinct in India The modern Giraffe has six

cheek teeth on either side of either jaw This is the pattern of all ruminants—oxen, sheep, antelope, deer But the Giraffe is easily distinguished from the rest of the ruminants by the pecuhar form of its lower canne teeth, the crown of which is divided into two halves by a slit No other living mammals except the Giraffe and Okapi have these peculiar slit canines Kamalial and Chinii beds of lower Siwaliks Guaffes are found as small creatures. The antelopes begin to be numerous in the Chinji beds, but they are small in size In the Dhok Pathan beds antelopes with cuived hoins make their first appearance. Buffaloes appear in the Tatrot beds (U Siwaliks) which also contain abundant new types of antelope and other ruminants. The modern ox first appears in the Boulder Conglomerate (u Siwaliks) where also the camel and the horse are seen for the first time The fossils of Hipparion, the ancestor of horse, are found in the Chingi beds and are very abundant in the Dhok Pathan deposits. Hipparion makes its last appearance in the Pinjai sandstones The Hippanion had three toes, but the side toes were of diminished size and did not touch the ground In the modern horse three petit toes have still further diminished in size and have become the splintbones The ancestor of Hipparion-Hyracotherium - not however found in India—had actually three toes and which touched the ground and were useful to the animal. The camels have near relatives still living in South America the llamas But in the Siwaliks we find no ancestor of camel In the Boulder Conglomerate modern camel appears America abundant fossil remains of the ancestral type of camels are found So it is likely that camels emigrated to India from America in Siwalik times - Like the camels the Tapiis of lower Burma and Malaya have no nearer relatives than the Tapus of Central America In Europe among the fossil remains of lower Pleistocene tapiis are found, but not in Siwaliks toothed tigers are first found in the Chinjis and die out in Boulder Conglomerate, their fossils have been found in Brazil. and in Pleistocene Aigentina It is now extinct everywhere Hyenas are found in Chinjis Amphicyon, related to both bear and dog, may be the common ancestral stock of both, been found in Kamlial and Dhok Pathan beds In the Chinji appears Dryopithecus—the ancestor of the beds

Sivapethecus of the same bed has excited great interest among scholars. It shows some primitive human characters. Its grind ing teeth are square and broad, and the whole jaw is foreshortened rather more than in most apes. It might be related to modern gibbon. Paleosimia also found in Siwaliks may be the ancestor of the Orang. Dryopithecus giganteus and D. chinjiensis have been also discovered in Siwaliks.

With the end of the Siwaliks the Himalayan upheaval was completed for in many localities of the Himalayan footbills tightly folded Siwalik strata stand on edge or have been thrust over the Pleustocene alluvium. In Middle Pleustocene due to defferential earth movements the north westernly river drainage system was disturbed in the Indo Gangetic depression. It was split up into three separate river systems of the Indus Ganges and the Brahmaputra. The depression was filled up as each fresh uplift of the mountain must have rejuvenated the streams and silt-bearing capacity But in the two great areas of folding at the eastern and western extremities of the Himslayan runge volcanic action has persisted down to recent times as in Sumatra Java and Sunda Islands in the east; and Kohi Sultan Kohi Tafdan and Basman Koh in the west in the Iranian region Earthquakes still persist where the rocks have been recently folded and not in stable Peninsular India, as in Assam, Kangra, Kohat and Quetta. Rann of Cutch was submerged by an earth quake in 1819 On the east side of Bombay Island trees have been found embedded in mud about 12 feet below low water mark. while a similarly submerged forest has been described on the Tinnevelly coast thus indicating that the land and sea level has undergone changes in recent times. In the alluvium of the upper Godavari valley in the Nasik District of Bombay the skull of Elephas namadicus has been found Remains of Hippopotamus and Bos namadicus have been recently obtained in wells 80 ft below the bed of the Ganges near Allahabad In Kathiwar there is calcorous freestone used extensively for building purpose known as Porobandar stone, attaining a thicknes of about 200 ft The rock consists largely of the remains of minute forminifera with small quantities of sand grains which have been transported by the wind from the sea shore It is not only found in Junegarh

which is only 30 miles from the coast, but even as far as Bikanei Though sand dumes in undulating curves 50—100 feet high move in slow procession in obedience to westerly winds and make the Thar Desert desolate it overlies the primeval sea—Tethys

Geologic Period		Million: years	s Rocks of Each Period	Inhabitants
Archean	18	300	Sands, slates, baked	or melted by hot magma below
Algonkiar	ı :	1000	Sandstones	Presence of Carbon
Cambrian		500	Sandstones and slates	Water plants, shells and sponges
Ordovicia	n	450	Shales and limestones	Jelly fish and animalcules
Silurian		400	Fossiliferous	corals,
			Limestones	fish and land plants
Devonian		350	Sandstones and	Tree-like plants and
			limestones	varieties of fish
Carbonife	ious	300	Conlfields	Huge forests,
				amphibious reptiles,
				spiders, insects
Permo-T	118SSIC	220	Sandstones on lar	nd Huge Reptiles and Mammals
Juiassic		130	Limestones	Ammonites, giant
				reptiles, flying
				Lizaid, birds and
			/	Mammals
Cretaceou	เธ	100	Chalk	Flowering plants,
.			G1 TD 1	birds and mammals
${f Tertialy}$		60	Clay Beds	Mammals, Birds
				Hoises, Elephants, Ape
Quaterna	ıy	20	Sedimentary	Biggest Mammals,
-	•		~	Anthropoids, Man

The age of the Earth may be computed between 2000 and 3000 million years, calculated on the basis of the formation of land from the radium in rocks. The age of the sun is between 5 million to 8 million million years. In the uppermost

Cambrian about 1200 million years ago fossils have been found About 500 million B C Trilobites were developed About 400 million B C not until the Late Silurian, vertebrate fossils of fish related to Sharks have been noticed. In the early Devonian insects appear In the Late Devonian about 300 million R C land vertebrates are known In the Perman reptiles appear The age of rentiles lasted about 125 million years In late Triassic birds appear The long jointed tail of Archeopteryx only differs from lizards with a row of big feathers on the side up to the hip region In Jurassic Cretaceous period, there were some improvements. yet pterosours had long tails like most reptiles though they made gliding flights with occasional wing beats. In the beginning of Genozoic Dinosaura disappear and placentals appear in large numbers In the lower Eccene mammals appear in large numbers. In the lower Eccene mainmals appear rodents ungulates edentates and primates of the lower group The age of Mammals is not more than 50 million years. Higher primates are not older than 10 million years about als of the age of the earth. Man is not older than one million years of of I p c of earth's age The mammals number 10 000 16 000 reptiles and amphibia 9000 fish 20 000; mollusca 60 000 crustacea 12 000, insects 470 000

If human serum is impected into the veins of a rabbit the rabbits blood becomes charged with a specific antibody for human blood. This can now be used a reagent for testing any other blood to human blood. If a few drops of it are placed in a test tube containing human blood a heavy precipitate is immediately formed. If placed in the scrum of gorilla or chimpanzee a less abundant precepitate is formed. But the baboons. New World monkeys marmosots and lomins react less readily in the order mentioned. By this method we find (1) that the birds show close relationship to reptiles (2). The whales—the manurals that have adopted aquate life—show an unmistskable affinity to the hoofed mammals especially the swine. (3) All primates show closer affinity to each other than any genera of mammals. (4) All carnivora show closer affinity than to other mammals. (5) King Crab (Limidus) is more closely related to scorpions and spiders than to crabs.

The wings of the ostrich, cassoway, New Zealand kiwi, being useless for flight, are very dimunitive compared with those of flying birds. The whales are mammals adopted to the life of the sea. They are warm-blooded and are protected against the changes of temperature by a covering of blubber, instead of hair. They come to the surface of water to breathe and they can store a large supply of oxygenated blood to be drawn upon during their submergence. Locomotion is accomplished chiefly by the enormous tail flukes which spread out houzontally instead of vertically as do the tails of fishes. The flippers of the whale which correspond to the forelegs of other animals are chiefly used for their locomotion through the water; of hind legs there is no external trace, but when the interior of a whale bone is examined in the hind legs region, a group of isolated bones is found which correspond in part to the pelvis and in part to the legs of other animals. The front and hind legs of the horse contain traces of the five toe bones of animals. Of course in the evolution of the horse we find the four-toed horse (Eohippus) of the Eocene period, three-toed horse (Mesohippus) in the Miocene, which developed into the present onetowed horse (Equus) in the Pleistocene There are 4 stout bones in the knee of the horse to its hoof, corresponding to the four bones in line with the middle finger of man Builed in the flesh below the shoulder of the horse is a single bone corresponding to the one in our upper arm Following this there is a pair of bones, duplicating the two bones of our upper arm. The mouth of the human embryo resembles that of a shark, and the nostrils as in the shark are connected with the edges of the mouth by grooves Then the head grows to be like that of a tadpole, and just in the young tadpole, the head is divided from the body by a narrow neck, quite dissimilar to the neck of a child. Along the sides of the neck there are series of gill slits, and just in the tadpole, these become covered by flaps of skin that grow back from the head and join the trunk. The neck indentation is thus obliterated and the head passes without a break into the trunk just as it does in the developed tadpole. The blood vessels at the side of the gill clefts resemble exactly those of the tadpole. There are four of them on each side and like those of the tadpoles, third on each

side drops out. The salamander retains the four throughout life but its near cousin the newt drops out two third as does the frog Thus the story of man's development from a water animal and his gradual closing up of the gill clefts is accurately repeated in the human embryo. We find the same history if we study the development of the young lizard within its mother In the process of human embryonic development, as the limbs grow out, the embryo resembles an ordinary four footed animal; but the fingers and toes are at first webbed like that of a from At this stage there is a well-developed tail and later there is a complete covering of hair like the hairy skin of a primate At buth the big toe of a human baby is widely separated from the other toes just as in the big toe of an ape and the legs similarly curve inwards at the ankles. There are about 167 vestigal organs m man Snakes are commonly regarded as legless reptiles. But in the python a small claw is observed on each side of the vent and the claws are supported by bones within the body in such a way that they are clearly the vestiges of hind legs Most air-inhabiting vertebrates have two lungs—one on the right side and the other on the left Many snakes have only the right lung the left being represented by a small protuberance

aries and oviducts of most animals are evenly developed on the two sides of the body but in the birds these function only on the left side so that by friction eggs are not broken The ovary and the oviduct on the right side are vestigal. The human external ear is provided with three considerable muscles whose respective actions would be to bend the ear forward, upward and backward. In the dog and horse these movements are of great value in discovering the direction of the sound but in man they serve no such corresponding purpose Deep-scated in the nasal angle of human eye there is a crescentic ridge of white tissue which in consequence of its shape is called the plica semi lunaris In the nasal angle of the cat's eve there is not only a small fold of membrane but a veritable third eye lid to pass under the two outer lids and the whole exposed surface of the eyeball to protect the eye The veriniform appendix whose cavity opens directly into that of excum is rudimentar, in man and in anthropoid ages But in rabbit a large and a highly complex cocum communicates freely and easily with an extended

and highly functional appendix. For fleeing animals it is useful and necessary to avoid frequent evacuations.

It is likely that Mongoloid has evolved from the anthropoid stem of Orang, orang has no supraorbital torsus, and the Mongoloids lack supraorbital eye brow ridges. This type possibly has hyperthyroidism. The Australoids sprung from the Gorilla, and the Negroids from the Chimpanzee stem, and the Caspian from the Gibbon (Sivapithecus indicus) stem.

2.—WANDERINGS OF MAN.

Man is an arboreal mammal which has left its aiboreal life. His remote accestors continuing to live in forests have preserved then laws, teeth and limbs on the primitive mammalian plan In the interglacial period, possibly in the outer Himalayas, there was excessive destruction of forest on which anthropoids lived This forced the surviving anthropoids to live as ground apes and change their mode of feeding Gradually driven to teriestical life, anthropoids became men and tool-making crea-By leaving the trees they developed an elect gait on land, and to balance the head, the brain-case (skull) was enlarged, and thus gave man his greatest asset—his big brain And for the development of the brain gestation period was increased. The gestation period of the gibbon is 7 months, of goilla, chimpanzee and orang-otang is about 9 months The anthropoids menstruate at from 25 to 28 day periods and give suck for eight or nine months They begin to produce young at from 11 to 12 years. Mezozoic dinosaur—Diplodocus—growing to 80 feet in length and weighing about 20 tons had a brain of the size of a hen's egg The brain of Uintatherium—a big ihinoceros like animal of the Eocene—weighing about two tons was no bigger than that The brain weight of anthropoids varies from 360 to 420 grammes

the level of the nostrils The skull is abnormally thick and the cranial capacity is low (1350 c c) The mouth is large and the lips thick but not protuberant. The teeth are large strong and white The bones are delicately formed. The arms and legs are lean especially the calf is lacking. But the body may be corpulent. The muscular development is poor. The lower paw is heavy Prognathism is moderate. The cheekbones are somewhat high and the chin is small and receding. The pilous system is well-developed over the whole body. The hart is long coarse, black or dark auburn. Men have luxuriant beard

The Austrics are very primitive. They still live the lives of neolithic age Their food was the mest of the animals they killed in the chase or seeds and roots grubs or reptiles They never domesticated any animal except perhaps a kind of dog —dingo They never reared any kind of cattle They are ignorant of the arts of agriculture. They never cultivated the soil for any food crop Their dwellings are formed of the branches of trees or hovels of piled logs loosely covered with grass or bark Generally wind screens of rough branches serve as shelter In remote places both sexes are still entirely nude. They generally use spear and axe made of hard wood; me hatchets of stone and the javelins pointed with stone or bone, and bent wood as boomerang for their chase A family or a group of families has the same hunting ground which is seldom changed and descends through the males Thus the sons inherit their fathers name and therewith the right to certain women for wives. The marriage is evogamous. It is forbidden within the same totem group except among the Arunta tribe which also usually avoids such unions At the death of a man his widows pass to his brother of the same totem group Polygamy is rare but infantitide is commonly practised. The modes of disposing the dead vary. Among some tribes a circular grave is diag and the lody is placed in it with its face towards the east and a high mound covered with bark or thatch raised over it In New South Wales the body is often burned and the ashes burned On the Lower Mutray the body is placed on a platform of sticks and left to decay At the funeral of men there is much mourning The famale

relations cut or tear their hair off and plaster their face, forehead and body with clay marks But at the funeral of women there is no such ceremony. The Austrics are somber, but are capable of great affections. They take well care of their sick and the blind who are of the best fed in the tribe. In the Luritcha tribe it was customary when a child was in weak health to kill a younger and healthy one and feed the sick and the weakling on its flesh. But the Austrics lack physical courage. In Northwest central Queensland the wife has submit to the sexual embraces of all adult clansmen of her husband at the first night of her marriage, thus proving that the woman was the common property of the clan But the husband will beat wife for her infidelity to him, for she thereby sells his property right over her without his consent. However the husband hands his wife over for a time to his friends as a friendly hospitality without scruple, for it does not infringe on his absolute property right over her In South Australia boys undergo three stages of initiation at their puberty At about ten the boys are covered with blood from head to foot, several elder men bleeding themselves for the purpose, just to make them valorous warriors At bout 12 or 14 a front tooth is knocked out to the accompaniment of the booming of the bullionier as if by an enemy The boy is scalled with gashes cut in back, shoulders, aims and chest, and the septum of the nose is pierced to prove his endurance and forbearance. Then penis is circumcised and thus made fit for mailiage and for clannish life. The front tooth of girls too at their puberty is knocked out. The ceremony is known as Bora Group marriage is also known among the West Joballuks of Northwest of Victoria This tribe is divided into two clans-the Gamutch and Krokitch The men of the Gamutch clan are by right the husbands of all women of the Klokitch clan In practice the old men of the tube distribute among the bachelors of the clan the unappropriated girls of the other clan To keep down the number of children they practise ovaliotomy on women and Mika artificial hypospadias subincision (the penile urethra being laid open from the meatus to the junction with the scrutum so that semen is discharged outside during copulaton) operation on men as a religious mysticism to enhance magical powers

Australoid possibly developed in Java or Sumatra. It might be the evolution of Pithconthropos erectus From Sumatra or Java the Australoid gradually reached Australia where Talgai skull betrays its antiquity The Australoid spread throughout Australia But in the northwest the Negroid immigrants absorbed and pushed the Australoid to Southeast and Tasmania where they are still in dominance Rut due to lack of energy and initiative they are dving out even in Australia The Austries and the half breeds do not exceed 75000 in number The Australoid spread over China and Japan In China they were pushed by the Palae Alpines to the constal region where they have been absorbed imparting to the Southern Chinese a swarthy complexion Similar is also the case with the Southern Japanese The Ainu is the last remnant of the neolithic Japanese population The Australoid Ainu has been now pushed north in Yezo and southern Sakhalin Australoid is the basic and primary factor in the Ainu. But the Ainu has received a slight mixture of the Mongoloid and also possible a diluted tinge of the Caspian The Ainu is longheaded (capha lic index 752) of short stature (156-158 cm) dark eyes without Mongoloid fold, snub nose sunken at the root and with wide nostrils long wavy black heir and abundant beard prominent supraciliary ridges reddish brown skin which sometimes is quite dark. These are all Australoid traits. But the short stature and slight prominent cheeck bones, and reddish brown complexion are likely due to Mongoloid or Palae Alpine admixture According to Japanese historians the Ainus (Asuma Yebissu) occupied the whole of Nippon from the seventh century B C until the second century of the Christian era In the seventh century A D they still occupied all that portion of the island north of the 18th degree of north latitude and even in the ninth century the chronices speak of the incursions of the The Gilyak, who occupy the northern parts of Sakhalin Kurie Islands the adjoining mainland coast from near the mouth of the Amur along the southern shores of the Okhotsk Sea to Uban Bay has large elements of the Australoid The Australoid may be traced among the Korvaks Chukchi and among some Eskimos Then continuing across the Bering Strait the Australoid is found as a small drift on the Pacific

coast of North America, and particularly is well represented among the Iroquois and Algonkian tribes of the Great Lakes The Australoid from their homeland Java or Sumatra moved northward through Malay Peninsula They spiead over Thailand Mixed with Caspians in the Mekong valley the Australoid formed the Mon-khmer peoples Through Burma and Assam the Australoid and later the Mon-khmers spiead all over India The Australoid forms the base of Indian population In northern India it has been amalgamated and fused with other races But in Southern India among the lower classes it is still the dominant factor. In Puranas it was known as the Yaksha In Ceylon it is known as the Veddha In the Jhellum vally glacier bed of Mangola trimmed flakes have been found And in the Sahan Valley in the liver drift there are heaps of artificially chipped rocks, large and small cores from which scalloped core tools, flat bottomed scrapers and fine blades have been struck out Similar stone-age implements have been found in Middle Java and at the site of Peking Man which indicates that these tools were the remains of paleolithic men who were Australoid The Australiods streamed north along the Persian Gulf Along the shoies of the Persian Gulf there is a narrow fringe of dark skinned curly haired primtive folk (in Mekran and Susiana), a blend of the Australoids and the Negritoes Then across Arabia the Australoid reached Africa In Upper Egypt Australoid cranta of predynastic period have been found From Africa the Australoid spread all over Europe In Spain, France, South Eastern England, Belgium and in the Rhine valley Neanderthal cranta of early Palaeolithic period (about 40,000 B C) have been found Neanderthal is a low-skulled dolichocephalic cranium with platyiihinian nose which is Australoid A Neanderthal skull has been discovered in a cave at Mount Circeo, south of Rome, dated between 70,000 to 130,000 years ago (I L N July 8-1939) Though the Australoid and Mongoloid were swept away and pushed to the north by the thrust and expansion of the Mediterraneans, yet Australoid crania, of Neolithic period are found in small proportions in Sardinia, North-Western Portugal, England, Belgium, Western Switzerland and in the Baltic region Angles who lived in Schleswig on the Baltic Sea show large elements of Australoid characteristics in them The Australoid mixed with Negroids formed Chudes (Puranic Sudra) in Esthonia The Chudes from the Baltic region spread upto Trans Baikalia They are Kurgan builders of South Russia or builders of tumuli (Kurgans) of Southern Siberia Advancing through the Oxus the Chudes overran India overthrew the Mahapadinas of Magadha and established the short lived imperial fabric of famous Sudra Nanda Dynasty of Magadha

The Mongoloid is of short stature (1m 61) with subbrachycephalic head (cephalic index on the living subject 83), thin straight flattened nose flat face prominent check bones epicanthio oblique eyes a pale yellowish akin black straight hair and little developed pilous system. The Mongoloid babies have large bluish patches on their sacro lumbar region but they disappear at the age of two or three. The Mongoloid developed in Mongolan plateau.

From Mongolia the Mongoloids spread over China and Japan where the base of the populations is Mongoioid. Mixed with the Australoids Casapians and Palae Alpines they have migrated They form an important element of the Buriats into Americas dominant factors of Khalkhas and Kalmuks In the Puranas Mongoloid was known as Hiranya Kasipu that is vellow man In the formation of the Nepalese and Assamese Nagas the Mongoloid plays an important role. In the kitchen mittens of Denmark, Mongoloid crania have been found Mongols by the pressure of the Caspians Alpines and Palae Alpines have been driven to Northern Scandinavia and they are known as Lapps In Neolithic period in Value and Tirol of Systzerland and Morvan in France Mongoloid crania have been observed and they form a minor element in the Swiss population. In Canary Islands Mongoloid crams are known In Southern Africa mixed with Negroids the Mongoloids have formed the Negrito

Though the Mongols number today about three millions and are peace-loving pastoral people due possibly to the pacifist Buddhistic influence they have not been always so. In this teenth century they dared to dominate the world and got a good

slice of it Mongolia is a rolling and plateau averaging three and four thousand feet in altitude, ribbed and flanked by mountain langes The Mongols longed for a good fertile plain as a grazing ground for their horses and to inherit that good piece of the earth And the earth trembled as the conquering Mongoloid horsemen galloped The Mongols are a small, sturdy squat men, thickset and strong The rigorous climate, hot in summer, bitterly cold in winter, creates a hardy people, able to withstand privations and discomforts, but quickly succumb to the enerva-ting influences of sedentary easy life. Owners of vast herds of hoises they had unlimited transport at their desposal, breeders of best Bactuan camels they had mexhaustible supplies of building materials, for apart from a few sticks their tents-yourtare composed of felt made from camel and sheep wool had no food-supply and clothing problem. For their sheep, horses and camels supplied them not only good transports, but their meat, skin and wool gave them ample food and clothing, and they moved with the aim. For their protective equipment the Mongols had an armour of tanned hide in four pieces, composed of overlapping plates which were lacquered to prevent humidity. The shield was only used when on sentry duty Then weapons comprised a lance, a curved sabre with sharpened point, suitable either for cutting or thirsting, and two kinds of bows, one for shooting from horseback and other for greater precision when on foot. The organization of the army was on a decimal basis. Each *Touman*, a division of 10,000 troops, was composed of 10 regiments of 1000 men, and each regiment of 10 squadrons and that again was divided of 10 troops of 10 men. Jenghis Khan (1162—1227), the great Mongol, after he had established his overlordship over the nomads of the Mongolian steppes, made his army victorious from the China Sea to the banks of the Dnieper He led his expedition in China in 1208 and by 1227 he was practically the master of the whole of China where Sung Emperors had held their sway Leaving his general Mukhuli in control in China Jenghiz Khan himself returned to Karakorum and set his plan for an advance towards the west. Here lay the rich and powerful empire of the Shaha of Kkwarizm (Karismian empire) which embraced what is today Turkestan, Iran and northein India Bukhara, Samarkand, Tashkent, Nur iapidly

fell into Mongol hands Merv once queen of the world, a centre of learning and a vast agricultural wealth based on a net work of irrigational system Balkh—on the silk route, the great pros perous Mother of cities Nishapur an art centre Herat-the abode of luxury-fell in rapid succession to the Mongol invaders In brief space of five months Jenghis had overthrown the mighty Karismian empire At Bamian a great Buddhist carayan centre. Jenghis lost his grandson and he razed the great city to the ground But Shaha s son Jelaladdin still held out in the south for a time and made a stand on the Indus But being defeated he jumped into the Indus 20 feet below and crossed to the other side with a number of his followers. The Mongols followed the fugitive, but failing to capture him returned to Ghazni after having ravaged the provinces of Lahore Peshwar and Malikpur Still Hazara a Mongol people live between Ghazara and Kandahar and extend towards Herat But Jelaladdin returned with the support of Sultan Altamash of Delhi and advanced westward to Tiflis Ogdar the son and successor of Jenghia, sent an army of 300 000 men into Khwarizm and at the sudden approach of the hostile army Jelaladdin flew into Khur dish mountains where he was murdered by a peasant. The Mongol army then unopposed overran Mesopotamia and des troyed its marvellous system of age long irrigation following year (1186) the Mongols invaded Gerogia and Armenia and captured Tiflis In the spring of 1921 the Mongols had pressed on into South Russia as far as the basin of Donetz. Everywhere they established a stable military and civil adminis They had an elaborate system of espionage. In 1223 the Mongol generals Sabutai and Chepe were recalled by Jenghiz Khan and they returned by the northern end of the Caspian bea Schemes of European conquest were suspended owing to the death of Jenghis in 1227 Disputes over the succession retarded further expansion in the west. But in 1239 due to Sabutais initiative Central Russia was subdued as far as Moscow Mongols advanced against Vladimir which at length succumbed The Mongols then stormed Kiev-the mother of cities. In Jan 1211 Sabutai camped in the region of Lemberg-Prezemysl. In March 1341 the Mongol army crossed the Vistula at Sandomir and defeated the Polish army and took Cracow and then Breslau.

In less than a month the Mongols had covered some 400 miles. fought two decisive battles, taken 4 great cities, conquered Poland and Silesia from the Vistula to the borders of Saxony Victorious and Silesia from the Vistula to the borders of Saxony Victorious and always advancing the Mongols marched towards Budapest. The whole Hungarian force was arranged on the Danube to resist the Mongols But in vain. The Mongols crossed the frozen Sajo, at night struck the sleeping Hungarian army, at day break and at midday the Hungarian army ceased to exist, leaving on the battle field 70,000 dead. Budapest was captured on the Christmas day 1241, having crossed the Danube on the ice and Esztergom. was taken by stoim While the Mongol generals were conquering countries, one by one, Ogdar had been living a life of ignoble ease and licentiousness which ended in his death on December 11-1241, and in the succession contest Mongol generals were summoned to Mongolia On July 1, 1251 Mangu, the eldest son of Tule, and nephew of Ogdai was elected Khagan With impartiality Mongol showed tolerance to the Christians, Mohamedans and Buddists although Shamanism was recognized as the state religion. Complaints reached Mangu that dessention had broken out in Persia Mangu sent his brother Hulago to punish the Ismailites or Assassins who were held to be the cause of the disorder Hulago marched across the snowy mountains against Bagdad to attack the last Abbasid Caliph and his Seljuk protetors. On February 15th 1258 Mongols entered into Bagdad and Hulagu gave permission to his astronomer Nasiraddin to build an observatory which splendidly furnished with armillary spheres and astrolabes was erected at Maragha. Aleppo was sacked and Damascus surrendered in 1260. Hulago was planning the capture of Targalory to protect the Chapture when the market and the capture of Targalory to protect the capture of the capture ture of Jerusalem to restore it to the Christians when the news of Mangu's death reached him and he returned to Mongolia, leaving Kitboaga in command of the Sylian forces At the assembly of notables (Kuriltai) which was held at Shangtu after the death of Mangu, his brother Kublar Khan was elected Khagan Wide conquests of the Hung-nu (Huns) and the Mongols made them a mixed people They not only took wives from the Chinese (Palae-Alpines), but also from the Persians who were mixed Aryans, Mediterraneans and Alpines, they even intermairied with European royal families Hulagu married a daughter of Michæl Palaeologus, Toktu Khan took as his wife Maria, the

Berbers were called Barabara (Skt Barbara) they were also called Lebu and Tamahu. The Romans called them Mauri (Moors Maurys of Magadha) In Saharan Abaggar and Air they are known as Toareg The Tuaregs are mono-gamous Their women are their equals in society and their superior as the repositories of tradition and learning A man s status of noble, serf or slave follows that of his mother A noble woman can only marry a noble man A noble man who takes as wife or concubine a servile or slave woman can only have servile or slave children whatever his own conditions may be. The woman's husband and her children be long to her tribe Certain properties pass through women Tursey women are consulted and respected and they con serve the art of Tuareg script and their trival history and traditions Tuareg women move freely with men A Tuareg traditions Tuareg women move freely with men A Tuareg maiden may select out of her suitors the one she herself prefers as her husband. They are unveiled The Egyptian and African Caspians are generally known as Hamites. In lower Egypt they are called Copts (Gupta). In Nubia and Abyssinia there are strong Caspian factors. Galla shows do minant. Caspian traits. Somali is a bend of the Caspian and the Negroid. Massi is a mixture of the Caspian Mongolian. and the Negroid Massi is a mixture of the Caspian Mongolian and the Negroid In the Caspian and the Black Sea region the Caspians were known as Soyths, Sacae (Skt Saka) In Crimes they were known as Cimmerian or Cimmerii (Skt Kinnara Biblical Gomer Canaanites) The Babylonian Ser gon Dynasty (2500-2400 B C) of Agade was Caspian non Semitic The Semite was a blend of Caspians and Moditerranenas The Agadians came from Central Asia where hon was not indicated the Caspian and Moditerranenas genous and entered into Northern Babylonia through one of the passes of Zagros Mts not later than fourth millennium B C That the Agadians were not Semites is proved by the absence of common name for olive fig and vine which are grown in Syria where Semites developed as a blend of the Cas pians and the Mediterraneans but not in Babylonia And these plants have common name in Aramaic and Arabic The Northern part of the river plain from Erech (Warka) by the Mesopotamian steppes was settled by the Aga dians and they called it Melucha possibly because the Agad

Caspians was a branch of the Molossi tribe that settled in Epirus In the fourteenth century B C Ras Sharma the capital of Ugarit kingdom of Northern Syria (surrounding Beirut) is found with Mycenaean tombs furnished with finery contents of magnificence and its temples are consecrated to Baal and Dagon. The well-built spacious dwelling houses have solid walls of corner columns of fine-shaped stones. Sometimes they include as many as 20 rooms disposed in two floors round a central court which contains a well. At the sides are great stone troughs for water supply, the bread oven with a coping of beaten clay and staircase leading to the upper floor. A roon on the ground floor is fitted as a bath room with a stone or terracota bath tub and a water waste, leading directly to a sink which serves also as a central drain Many fine vases, numerous bronze weapons and statuettes of divinities and several cylinders engraved with remarkable skill in materials as hard as black haematite and a limestone skill in materials as hard as black haematite and a limestone stele have been found. The stele contains a tall man with elongated broad face (Caspian type), rich beard, aquiline nose, wearing a conical cap on the head. The bronze statuette is in the standing posture in the act of hurling a thunderbolt, wearing a stone helmet with electron horns, the body covered in gold leaf the edges of which were inserted in the grooves at shoulders, arms and legs. A heavy bronze sacrificial sword and swords and daggers and 44 bodies buried in a vault have been found. The skulls are mesocephalic (I.I.) N. Feb. 22-1936). Kassites (Babylonian, Kasshu, Egyptian, Kush, Bib-1936) Kassites (Babylonian Kasshu, Egyptian Kush, Biblical Cushite (11 Sam 18 21-23), Iranian Cossoei, Puiānic Kāsya, founder of Kāsi Dynasty) ruled Babylonia from 1740-1150 B C. The Kassite domination was overthrown by Assyrians (Asuras) who were also Caspians and whose power Assyrians (Asuras) who were also Caspians and whose power lasted up to the capture of Babylon by Cyrus in 539 B C. The Kassites spread over Northern Arabia and there pushed the Alpines to the South (Minaeans and Sabaeans), crossed the Red Sea and settled in Nubia which they called after them as Kush (Purānic Kusa-dvipa). The Caspians mixed with the Mediterianeans in Syria and North Arabia formed the Semites. The Kassites were in Elam at the southern spur of the Zagros Range. Their Kingdom was Kashi,

face prominent mesorhine turnid nose long head with ver-tical forehead, with black open eyes and straight black hair they were the mixed Mahuha-Monkhmer peoples, Sumbha Nisumbha The Monkhmer language now survives in iso-lated patches in Yunnan, Cambodia, Wa and Palaung lands in Burma Khasia Hills in Assam and in the Munda-spenking Chota Nagpur thus indicating that Monkhmer peoples once stretched from Cambodia through Irawadi basin to the Vindya Hills A double bladed iron sword is or was till recently used as a sword of state by the kings of Thailand it is depicted as carried by foot-soldiers on the bas reliefs of Angor Wat in Cam bodia and it is still handed down as hairloom in Naga Khasi and Kachari families in Assani Mundas carry a double-bladed axe like the Mycenseans Munda may be corrupt form of Manda The Mundas have further received mixtures of Negrito blood.
The Finno Ugrian elements of the Munda Language are due
to the Palse-Alpine mixtures of blood The Khasis are of
medium stature with mesocephalic head and mesorbine nose but of light complexion and sturdy constitution. The Khasis erect menhirs or tablestones to their male and female dead ancestors Property among the Khasis passes by the female line and is always inherited by the youngest daughter Social in instance in the property among claims. The husbands rives in the houses of their wives Todas living in Nilgiri Hills are Caspians slightly mixed with the Australoids (Mon Khmer)
They worship the buffalo and herd the buffaloes. The Todas They worship the buffalo and herd the buffaloes. The Todas are of high stature (Im. 70) with dollechocophalic head (cophalic modes on the living 731) with thin long nove (748) rich brown complexion well-developed beard and pilous system. The Todas practise fraternal polysadry. All the brothers marry commonly all the sisters Nair (Nayar Tamil Nayadu, Naidul a martial caste of Malabar is also a tall dollechocophal with thin prominent tunid nose and light complexion. But though Nair is also like Toda a Mon Khmer tribe in it the Australoid element may be pronounced. At least its group marriage (Sambandham) by which a group of youths belong m to clan have marital rights over all the maids of a different clan is similar to the Central Australian custom where the Gamutch clan men are by right the husbands of all women of

)

the Krokitch clan and viceversa Among the Naiis though Sambandam ceremony theoritically takes place in practice monogamy is the rule or being evolved. The Nair inheritance law by which the sister's son inherits maternal uncle's property is the same (main-makathy) am) in Trobiands in the Solomon group where the Australoid factor is dominant lineal order which is also known in Melanesia, Sumatra is also indicated by many social functions which maternal uncle discharges at the birth, initiation and marriage rites (Avanculate) Some Singhalese of upper classes of Candy show pronounced Caspian factors in them They are tall dolichicephals with long brows, high bridged thin long aquiline nose, fine beard and polyandry was very common among them The Singhalese Caspian may be vangurad of the Monkhmer or more likely to the descendants of Pulasta (Pelasgi) who settled in South India Caspians entered into China through the Yellow River valley, and in this region Caspian factors are found And another important branch of the Caspain streamed forth towards the Pacific over Krigitz, Altar and Baikal plateaus and entered into Amui basin Among the Coreans Caspian factors are found From Corea, the Caspians entered into Japan, where the Caspians are represented by the Yamato group who form the aristocracy of Japan They are tall and slender, have long face, mesocephalic head, rosy white complexion, but with slight oblique eyes due to Mongoloid mixture Eskimos and Greenlanders, a blend the Caspians and Mongoloids show dominant Caspian type with long head, broad face and thin nose Iroquois and Lenape of New England show strong Caspian factors Mayas of Yucatan are blends of Caspians and Palæ-Alpines The Tehuelche or Patagonians and Onas of Tierra del Fuego show dominant Caspian factors they are very tall (1m 75) with dolichocephalic head, broad clarge 13 feet 12 feet 12 feet 15 fee broad elongated face, thin long nose

The Negroids evolved in western Africa The high skulled dolichocephaic head with the small globular forehead rests on a thick fleshy neck and hangs a little forward as the occipital foramen is faither back and the spinal column is straighter, because the pelvis is not curved toward the front but is

perpendicular The knees are generally curved and the calves perpendicular The kness are generally curved and the calves are far off, projecting a little to the side and not much developed. As the muscles of the upper leg is also undeveloped and the legs are proportionately long the Negros appears slender and tall (1 m 70) with cophalic index of 73 6 The pelvis of Negress is narrow and small the Negress has pyriform breasts. The generation organs of Negroes are large and flabby. The foot is often flat and the heelbone projects. Both the upper arm and the forearm, especially the latter are long. The hardness of the palm of the hand is produced by the peculiar formation of the skin. The skin is thick on account of the abundance of papells velvet like, soft and always cool inspite of its dark pigment which varies from slate color to scoty black it is sensitive to the heat of the sun. There is little hair generally Down is almost absent. The beard grows late and only about the mouth and the chin. The Negro hair is flat issues from the epidermis at right angles is spirally twisted. The Negro hair felts like wool. The nose is broad flat and distended at the nostrils The lips are thick and everted The laws are prognathous The teeth are large The eyes are dark brown with yellowish cornea Zygomatic arches are large these bones are prominent. Lygomatic arones are intro-ting odor from the abundant sebaceous glandular secretions. Pigmentation is abundant in the mucous membranes. Even in quadroons with ivory skin and wavy hair pigmentation patches may be observed in vaginal mucosa.

The Negroids from their West African homeland migrated castward by the coastal region of Arabia and Iran through India to Malaya Peninsula and thence through Sumatra Borneo Celebes, Moluccas New Guinea, North Western Australia Solomon Islands and New Caledonia In Indonesia Melanesia and North Australia the Negroids and Australoids are fairly mixed with the Negritoss The Negroid admixture is botrayed by their tall stature pronounced prognathism, broad nose sooty complexion and particularly by their curly frizzly or even woolly hair according to the degree of mixture Through North Africa the Negroids drifted northward and spread through Iberian Peninsula in later paleolithic times. Due to the pressure

of the Mediterianeans, the Negroids have been driven into mountamous isolated regions of North western Portugal, of Muicia, Valencia and of the Priences In the Dordogne and the western edge of the Massif Central of France Negroid crania of Neolithic times have been found. In Mecklanberg in the northwest and Silesia in the southeast. Negroid type in Neolithic times was in majority with a minority of Australoids on the Baltic shore. In the upland central part of White Russia (Smolensk Tula region), the Negroid factors are primary while the Mediterraneans and Caspians are secondary factors. While in the Black Sea region the Caspians and Mediterianeans and Caspians are dominant while the Negroids are secondary. The Negroids were driven in the Valdai plateau and in the Baltic region. In the Valdai plateau the Caspians and Mediteiraneans mixed with a few remaining Negro ds and Australoids formed the Aryans Negroid and Caspian blends formed the Goths and this type is dominant in the White Russia population The Chudes were formed in the Baltic region as a blend of the Australoids and Negroids, an Esthonian tribe Chudes migrated eastward Chudes according to local traditions occupied Siberia, especially their south western parts. Their Kurgans or barrows abound in the eastern slopes of the Uials, in the Altai valleys, on the banks of the Yenisei In the mineral regions abandoned excavations are known as Chude On the western spurs of the Altai ceitain stone Chude monuments about 5 or 6 feet high inscribed with still undeci-phered characters are found. And on the banks of the sacred lakes in the Altai highlands are to be seen two judely carved granite hoisemen regarded to be the representation of Chude heroes, various objects, especially arms and copper almour, metal mirrors, jewelleries in beaten gold. Bronze vases embellished with bas-reliefs of such animals as deer, eagle, wolf and griffons show that the Chudes were possessed both of taste and great abular metal mortal mortal metals. skill in metal working The iemains of canals, several miles long, the foundations of sluices and windmills bespeak a really advanced state of civilization which cultivated fruit trees that have since perished and which reared an excellent breed of swine, still bearing the name of Chude, and traditionally attributed to those ancient possessors of the land (Elisee Reclus - Asiatic Russia P 317 355) Chudes through the Oxus region reached India, and

they became known as Sudra, Sydroi of Ptolemy And then overthrowing the Mahapadmas the Sudras (Chudes) under the leadership of Nandas assumed the suzeramty of Magadha.

The Negrito is a blend of the Negroes with the Mongoloids It developed in the Congo region The Negritos are of low stature (1 m 47) Their skull is relatively short, broad (sub-dolichocepha lio) and of little height. Their hair is chocalate brown somewhat yellowish. Their hair is woolly (scanty on face and on body) and they have flat nose and thick everted lips and prominent cheeks Prognathism is marked Steatopygia is usually found among their women They are generally known as pigmies as majority of them are under five feet in height Bushman of all Negritos is noted for steatopygia But other pigmies such as Akkas or Tiki Tiki of the upper Nile Afiffi of Momfu Wambutti of Ituri Batua and Akua of French Congo Dumes of Lake Tanganika region suffer no less from steatopicia but to a less extent The Negritos from centre and of South Africa drifted eastward like the Negroes Among the brachycephalic population of Southern Arabia and along the Persian Gulf Negrito elements are found The Negritos passing through India and Assam corridor reached Melanesis Bhils Santals Munda Oaron and other aboriginal tribes have got some mixture of Negritoes during their passage through India which is betrayed by their frizzly curly hair prognathism and steatopygia. A Santal has been observed in Rajmahal Hills with woolly hair Among Kadars and Pulavans of Annaimalais Hills frizzly hair is not infrequent. Frizzly hair is a frequent occurence among the Angami Nagas Among the Nagas of Assam there is a large amount of Negrito blood The Minkopis of Andaman Sakai and Semang of Malay Peninsula, Acta of the Philippines and Tapire of New Guinea are the typical examples of Negritos that have been left behind in their migrations eastward

The Palæ-Alpines with medium round head, broad face medium nose elongated eyes stocky constitution and moderate pilous growth cream complexion black straight hair have developed on the fringe of eastern Turkestan In early \columbia period the Palæ-Alpines spread over Mongolis China and Japan and Buima where they form the base of the population In Indo-China, mixed with the Australoids the Palae Alpines formed the Malayas Among the Polynesians who are dominantly Caspians, there is an element of Palæ-Alpines as far as Howaii Sumatia, Borneo, Mongoloid, Negrito, Australoid mixtures are no less significant. Palæ-Alpine factors are strong in Java and Bali Yakut is a mixed race of Australoids and Palæ-Alpines yed is a mixture of Mongoloids and Palæ-Alpines Finns are mostly Palæ-Alpines Tatars are mixed people, but Palæ-Alpines factors are strong among them In the Kingiz and Uzbeg the Palæ-Alpine factors are dominant Kalmuks are a blend of Mongoloids and Palæ-Alpines Buriats are mostly Palæ-Alpines Czechs show typical Palæ-Alpine features In Switzerland Palæ-Alpines are mixed with Alpines as in Morvan (France) Throughout Central European Highland similarly they are found mixed up and they were dominant there in Neolithic times All over the Anatolian plateau and Mesopotamia the Neolithic crania are Palæ-Alpine, who are dominated in the bronze age by the Alpines Palæ-Alpines in Mosopotamia were known as Sumerians The Agadian's were originally unacquainted with hon which they called great dog (nug magh), horse which they called ass of the east or mountains, wine as the drink of life (gishtin) and the palm, the tree of Maga (miss- Magan) En-shog Kush Anu was the first king This Anu (Puranic Anu) from ancestor worship became the heavenly father Anu or Enlil, the king of the lands Anu's consort was Innini The Sumerian diessed in a flounced skirt, a sheep skin with wool combed The people are generally found seated cross-legged The historical Sumerian period lasted from 3000 to 2500 B.C. The deltaic region was called Kengi Of the Sumeiian kingdom of Kengi, Sungii was the capital Later Sungir was called Sumer (Puranic Sumeru, Biblical Shinor, Tell-Amarnan Sankhar) Palæ-Alpine Anava kingdom extended from the Punjab to Anga (Bengal) up to last great monarch Usinara Sibi about 1900 B C when it was disrupted in the centre by the terrible incursions of the Kasi peoples (Kassite Caspians) into Gangetic plains of Baranasi and of the Kusika Gādhi peoples (Kurds-mixed Kassites) and the devastating raids of the Haihayas in order to repel and conquer these new comers Majority of the upper middle-classes of India are Palae

Alpines The Palae Alpines are gay and cheerful. They are fond of songs and dances for which they were called Gaudharvas They domesticated animals

The Mediterraneans are low-skulled dolichocephals of light-bond frame of brunet complexion of moderate size (Im 64) and of ellipsoid face with moderate fine narrow nose and gazelle eyes. In the delicacy of the cranial and facial harmony in the pleasant curves of the form in the absence of exaggerated frontal boses and supraorbital arches the type is beautiful, almost femmine and graceful. The pilous growth is moderate with fine beard and wavy black hair. The cross section of the hair of the Mediterraneans Caspians Aryans Semites and Alpines is an ovel ellipse—an intermediate of the cross section of the Negro woolly hair which is a lengthened ellipse and of the straight hair of the Mongdoid which is circular.

The Mediterraneans possibly developed in North Africa. And thence it spread all along the Mediterranean coast. In the upper Paleolithic in the Azilian-Tardenoisian period (10 000-7000B C) in Western Europe, the Mediterraneans were already driving out the Negroids Australoids Mongoloids and Palae Alpines to the marginal refuge areas. In the Valdai plateau area the Aryans were formed as a blend of the Mediterraneans with the Caspians (Picts whose language is like that of the Berbers) and a few remaining Australoids and Negroids The Mediterraneans from North Africa spread over Spain Portugal, France and Great Britain. The Mediterraneans of Long Barrows overran Great Britain in Neolithic times supplanting the Australoids (Neanderthals) The Piltdown skull found in Sussex appears to be blend of Australoids and Mongoloids A few Caspian cranis are also found which have left the dolmens Then came the Palae Alpines from France through a land bridge which still connected it with England and they appear in large numbers in Yorkshire and Aberdeen Then in early bronze period of about 2000 B C came the Alpines (Beaker folk) of Round Barrows who drove the Mediterraneans to west central parts As a small drift the Alpines reached east ern and northern Scotland Then came the Celts (Goidels --Gaels) a mixed Alpine and Caspian people with a slight infiltration of the Aryans or at least their tongue, about 800 B C

in the early non age. As Gauls they had conquered all France and pushed on southwards and westward into Spain and over the Mantime Alps into Northern Italy After the Gordels came the invasion of another Celtic people Cymry or Brythons about 300—100 B C who drove the Gordels further westward These Cymry occupied noithein France under the names of Belge and Bivthons in several waves, and invaded England, after whom Britain has been named These invasions were checked by the Roman occupation After the fall of the Roman power sea raiders from Denmark and Germany began to occupy Scotch and English coasts From the fifth century onward Anglo-Saxon invaders occupied south and east of Britain and spread over the land except in the extreme north and west Angels are a mixed people of the Mediterraneans and Australoids And Saxons are a mixture of the Mediterraneans with the Caspians Then came the Danes and Normans The Mediterianeans entered into South Italy from Tunisia and Sicily The Mediterraneans occupied the African Mediterranean coast But they were pushed to Egypt by the Caspians who harried them in Lybian coast, then known as Lebu now known as Berbers (Skt Barbaia, Gk Barbaros) The Mediterraneans discovered copper and mined it in Egypt about 3400 B C The Mediterianean Menes (Mena) founded the First Egyptian Dynasty about 3200 B C by defeating the Lybian Caspians From Egypt the Mediterianeans spread over Syria and noithern Arabia where mixed with the Caspians formed the Semites In Arabic Hadramaut Mains (Mineans of the Greeks) ruled up to 1503 B C until overthrown by Caspian Sabas (Sabeans) whose queen Sheba visited Solomon (974-937 B, C) From 3000 B C the Mediterranean settlement in Ciete is known as Minoan Period by the descendants of Minos (Egyptian Menes, Puianic Manu) The Minos civilization lasted in Crete from 3003-1700 B C which was then dominated from 1700-1500 B C by Mycenaeans (Caspians Pelasgi) which came from Greece, being pushed by the Aryans The Mediterraneans in Iran were known as Turans Being pushed by the Alpines in Iran, the Mediterraneans reached the Indus basin through Baluchistan, leaving behind there Brahui tribe which is primarily Mediteiranean in iace, but now mixed with Palæ-Alpine factors. In India the Mediterraneans are known as Turvasus Manus (Mānava descen dants of Manu) There is alo a Mina tribe in Rajputana which is dominantly a Mediterranean dolichocephal. In Northern India the Mediterraneans were absorbed and Mediterranean traits are found in upper Middle classes. The Turvasus were driven south where according to Puranic legends they established Pandya, Chola and Kersis kingdoms. Even today in the south in upper classes, particularly among the Ayar Brahmins, typical pretty ellipsoid faces with ivory tint fine nose delicate features, gazelle eyes are not infrequently met with, superimposed on Mon khmer base. The generic name of the Mediterraneans was perhaps an intermediate form between the Egyptian Menes or Mana, Gretan Minos, Hindu Manu, German Mannu, and from which the word man has driginated.

The Semite is a blend of the Caspians and the Mediterraneans in Syria. The Semite has elongated ellipsoid face, medium skulled delichocephalic head thin aquiline nose, thin lips, retreating chin vaulted forehead tall (1 m, 65) lean but muscular with fine growth of wavy hair beard elongated eyes and of brunet complexion. The Semites are greedy cruel vindictive sensual, but daring adventurers. The history of the Semites is the woeful tale of sword fire tortures, fanaticism, rape and rapine They have contributed nothing that is of constructive value but have destroyed many things that civilization holds dear The Semites now are much mixed peoples. In the Arabian coastal region there is much mixture with the Negroes Sinai Peninsula Syria and northern Arabia the population is still dominantly Semitic But in Hedjaj the people are mixed with the Alpines. In Yemen and south Arabia the Alpine factors are dominant. The Jews who are regarded as Semites have hardly any Semitic traits left in them. The Russian Polish and German Jews-who constitute the major portion of the Jews are generally mixed Palae-Alpines and Alpines They are known as Ashkenazim. Among the Sephardin Jews who were expelled from Iberian Peninsula in fifteenth century and who have settled in Morocco Constantinapole Smyrna and Saloniki there are some Somitic traits left in them But they do not number more than 5 p c of the Jews That Moroccan Jews

have dolichocephalic head with aquiline nose does not indicate anything, for the Moroccan peoples are generally Caspians It is very possible that the Jews have been mixed with the peoples among whom they live The predominant brachycephalic factors among the Jews may be due to Khazars (Pulanic Gurjara) They were mixed Alpines and Palae Alpines Khazars attacked Armenia in second century A D, and occupied it with the aid of Byzantium Khazais became the carriers of trade of the Byzantium During the fourth century Khazais were driven from Armenia by the Persians Khazars occupied Caucasus But the Huns under Attila (434) brought them under his submission However Khazars became the traders of the Huns and Khazaria included the area between the Caucasus, Volga and the Don with Crimea (Little Khazaria) The Moslems undertook the subjugation of Khazaria (651) Eighty years of warfare followed, and in the end the Khakan the Khazarian ruler, and his chieftains were captured and compelled to embrace Islam (737), and till the decay of the Mahamedan empire Khazaria paid an annual tribute of children and corn' (737—861) Merchants from every race found protection and good faith in the Khazar cities The Jews expelled from Constantinapole sought refuge among them. The Khazar dynasty accepted Judaism in 740. At the Byzantine court the Khakan was held in great honour The emperor Justinian Rhinotmetus took refuge with him during his exile and married his daughter (702) Justinian's rival Vardanes in turn sought asylum in Khazaria, and Leo IV (775) was a grandson of a Khakan Khazar troops were amongst the body guard of the Imperial Court They fought for Leo VI against Simeon of Bulgaria And Khakan was honoured in diplomatic intercourse with the seal of three solidi which marked him as a potentate of the first rank, even above the Pope and the Carolingian monarchs In 1016 A D however by the rising power of the Slavs with the aid of Byzantines, the large kingdom of Khazaria was destroyed and the Khazars were scattered far and wide The present Jews are most likely the descendants of these scattered Jews And Khazars like the present Jews built great cities as emporiums

The Aryans are a fusion product of the Mediterraneans and the Caspians with a few remaining Australoids and Negroids on

the Valdai plateau. The Aryans were tall (1 m 70) slender with ellipsoid face medium skulled dolichocephalic head blue eyes, wavy golden hair luxuriant beard medium variable noses Aryans domesticated horse They invented iron They crems ted their dead. They burnt the widows of the chiefs on the same funeral piles of their dead husbands. They were breeders of excellent horses They prided themselves to be called shepherds This well watered plateau is the watershed of many rivers in different directions. And through those river valleys the Aryans spread in various regions. Through Dwina the Aryans reached the Baltic region where they were known as Lithuanians and Old Prussians From this area they migrated to Germany And there they contested for supremacy with the Caspians who were known as Goths and Teutons and the Alpines Through the Dnieper valley the Aryans reached the Black Sea region and thence ascending the course of the Danube reached Albania and Greece and another branch Northern Italy In Greece they were known as Ionians and Achaeans and in Italy as Romans Through the Volga the Aryans reached the Caspian Aral Sea region The Aral, Caspian Azov and the Black Seas are the shrunken relics of the primitive Tethys. And the Aral and the Caspian were united in neolithic period J Their water level was much higher They used to drain into the Black Sea And due to an earthquake the Golden Gate (Bosphorus) was opened and the water level of both the Caspian and the Black beas have been much lowered From Mery (Meru) the Aryans went into two directions Through Demayand passes the western branch entered into Iran Through the Oxus valley and Kailasa plateau and thence through river valleys the Ikahvakus (Achaeans) descended into the Indian plains

The Gudean Dynasty (2400—2100 B C) overthrowing the Agad (Caspian) peoples occupied Babylonia, coming through Zagros Range Gudea (Puranic Gādhi) is called Isasku (Puranic Ikshvāku) and Patesi (Skt Pati-lord master ipa-lord Patesi—overlord) of Lagash, Gudea the founder of the dynasty has a thin nosed long headed shaven face wearing a chlamys like cloak and a cap as preserved in the fragment of a statue (2400 B C) A headless statuette of his son—Ur Ningirsu—shows a slimmer figure. The goddesses of the third Gudean

Dynasty are tall slim figures, diessed in flounced skirts, with fine long ellipsoid face and high-biidged prominent nose, two of them have cow hoins in their headdless. A copper statuette of a Patesi of mesocephalic head has also been found. The Gudeans were great temple builders. Their temples were built with brick built columns and wooden doors, secured wedged in a brick box. The administrative centers were temple precincts In the greenstone Gudea Vase two serpents (Serpens symbol of virility) are twined round the Tree of Life (generation), watched on either side by a bird-headed winged hon (Aquila and Leo), standing on hind legs, the body covered with stars. The Gudeans are now represented by Kuids who are mixed Caspians Amorites were known in Assyria as Amuriu, Vedic Amura (7-61-5) and in Egypt as Amar, Puranic Amaia In Babylonia it was called Martu Amurru was applied primarily to the land and its people extending northwards of Palestine as far as Kandesh on the Orontes (11 E B Amorites) The Amorites were driven from Palestine by the invasion of Khatti and Mitanni from the north The Amouste king Khuvasuvash, contemporary of Naram Sin of Agade (2530 B C) and mentioned also in Khatti inscription is an Aryan name During the reign of Amenemphet III of Egyptian Twelfth Dynasty (2600—1721) in the Beniahassan tomb of his name Mah, Governor Khnumuhotep, there is a basrelief of 39 Amorite men, women and children, blond, tall, long-headed with blue eyes and thin lips, brought before him whom they presented with a sort of greenish ointment maszmit and two boxes of perfumes They are armed with bows, javelins, axes and clubs, dressed in good taste of fringed and patterned materials One of them plays as he walks on a lyre like that of the Hellenes. This shows that the Amorites were Aryans In Babylonia the Amorites first settled in Sippur as merchants and mercenary soldiers About 2057 B C Samu (R) Abi (Sama Rabi=tolerant sun) of Mari fought for sovereignty and he succeeded to dominate Northern Babylonia Hammurabi or Kammurabi (Kshama Rabi = benevolent sun sixth in line, assumed the title of the ruler of Ur. Isin and Larsa Hammurabi was a great king Hammurabi's code (2038), based on the Gudean second king Shulgi's legal mannual, is the most famous ancient systematic Law Book of Procedure The

Amorites had literary and artistic taste The Gilgamesh Epic is a creation of this period The god Martu (Maruts) the patron derty of Amarra, a form of thunder god is found on many seals standing with one arm a kimbo holding a club and is worshipped by his consort with both arms bent upwards. There are amulet figures of spes dwarps and naked goddesses. The goddess Bau (Skt Sarasvatı) indes the celestial waters (Milky Way) seated on two ducks (Cygnus) which symbolize certain stars In 1759 BC the Khattı monarch Murshilish, not only vanquished Khalap and Khurri, but by devastating raids on Babylonia overthrew the Hammurabi dynasty and the Kassites who served under the Amorites as soldiers in considerable numbers betrayed their masters and assumed power under Khattı suzerainty At Vari in Mesopotamia a mural painting of the coronation has been found, most likely in the 33rd year of Hammurabi (2100 B C) The king a tall slim figure with well shaven ellipsoid face putt ing on bracelets in his hands a turban like headdress and dress with scallowed trimming like spreading eagle feathers covering the upper parts of the thighs the calves of the legs showing high muscular development the clothing kept in place by a three fold belt is offering libations to fire and before possibly Shamash, a tall slim youthful figure wearing lion cloth and holding a thunder rod in his hand against his left' shoulder and his wife Av and Martn (Maruts) the god of the land of Amarra followed by the master of ceremonies wearing a white cap tightened by a two fold black ribbon a necklace with a large pendant an oval shaven face of brachycephalic type prominent aquiline nose (Khatti) thin lips a feather like white garment hanging from his shoulders accompanied by a man with luxuriant trimmed beard fine oval face of brachycephalic form, long eyes and brows wearing a black cap tightenned by a twofold white ribbon leading a bull with a gold crescent and golden horn tips to sacri fice In the central panel the king is coronated by goddess Ishtar And water is flowing from an amphom (Aquarius) in the hands of two goddesses. There are two winged hous (Aquila and Leo) on each side with a Swastika like device in the curl of their tails (I L N Oct. 30-1937)

Mitanni (Mitra-friendly allied; anika-army Mitranikaallied forces or allied army) was a horse-breeding aristocracy In

the first half or the second millennium B. C. Mitanni Aryans iuled in South Armenia, Aleppo (Khalap) and Noithern Mesopotamia (Khaniagalbat) Twelfth Egyptian Dynasty (1560-1320 Explain Dynasty (1560 – 1320 B.C) in alliance with Mitannis attacked the Khattis of Syria and Asia Minor, and captured Megiddo, Kadesh, Seurya and Ardus The land between the Orontos and the Euphrates was given to Mitannis for their formidable military aid Thothmes III (1500-1447) was succeed by his son Amenhetep II (1448-1422 B C) who was displaced by Thothmes IV (1420-1412) Thothmes IV was married to the daughter of Harri king Artatama (Ritatama = the most pious man) Tushiatta, king of Mitanni, mentions in a cunciform tablet (in Berlin Museum; which he sent to Amenheten IV (13 6—1359) that the father of his father Thothmes IV hetep IV (13 6-1359) that the father of his father Thothmes IV sent to his grandfather Artatama and asked for his daughter to wife. Six times did Thothmes IV make his request in vain and it was only after the seventh asking that Aitatama gave his daughter to the king of Egypt as his wife. As queen of Egypt she was styled Hercditary Princess, President of the North, Great Royal Mother-Mutemua. Mitanni swore a treaty with Khatti, found at Boghos Keui in which the names of tuterlary deities—Mitra-ashil (Mitra) Unuvana (Varuna', Indara (Indra), Nashattiya (Nasatya)—are invoked Mutemmua's son was Amenhetep III Amenhetep III built a temple at Elephantine of Ram-headed Khmen with pantheistic interpretations Amenhetep III (1412—137c) married Ti (Thi) daughter of Yua as father and Thuan as mother Yua, father of Ti, is of Aryan type as exhibited by his best preserved mummy, now in the Cailo Museum (for photo, see N. G. M. May 1923) Ti is an exceptional beauty of pretty ellipsoid face, fine long nose, almond-shaped eyes, thin lips, hemispherical breasts, delicate hands and fingures. She is slim and of medium height. But though Amenhetep III loved Ti, Tel-el-Amarna tablets show that in the tenth year of his reign he married Gilukhipa, the daughter of Shutaina (Sutarna = son of tumult of battle), prince of Neherna, and sister of Tushiatta (Dasaratha), Mitanni ruler He also married, Tushiatta's daughter Tatunkhipa with a large dowry for a tablet in the Berlin Museum (No 296) contains a long list of wedding gifts But Ti was King's favourite and she gave birth to a famous son Amenhetep IV (1376-1359) but who changed his name later

to Akhenaton. Amenhetep IV married his father's daughter by Mitanni wife (some say Tushratta s daughter) pretty Neferteti who as shown in the painted limestone head in the Berlin Museum is an extraordinary beauty of Aryan type with dignity vivacity and grace She is tall, slender has an ellipsoid face with thin slightly projected chin, long slender nose curved lips beautiful brows and eyes she wears sandals with uplifted toe tips in the Khattı fashion At Lochish 25 miles south of Jerusalem in the Egyptian Middle Temple (1420 1355 B C) a scaraboid with the inscription of The Royal Wife Twi queen of Amenheten III. has been found (I. L. N. Oct 8—1995). Amenbelep IV (Akhe naton) was an Aton worshiping Monotheist. He believed in uni versal brotherhood and peace. He abhorred bloodshed Taking advantage of the pacifist tendency of the Egyptian monarch Akhen Aton the Khatti (Hittite) king Shubhiliuma (Siva vile pana continent of Siva crossed the Euphrates and reconquered the provinces which he was forced to surrender to Artstama king of Harri and Tushratta, king of Mitanni Mattiuaza (Mati-ora-spirited mind) son of Tushratta with the aid of some palace guards killed Tushratta. Tushrattas relative and ally Artatama intervened and made his son Shutarna (Suta arna son of the tumult of battle Rv 4 24 4) the combined Ling of Harri (Arys) and Mitanni, Assyria taking advantage of the chaotic state pounced upon Mitanni and Harri. Mitanni palace was sacked, plundered and reduced into a dust heap and the treasures which Tushratta s grand father had brought from plun dering Ashur were taken back by the Assyrian Victors with many nobles as captives Shutarna acknowledged the suzerainty of Assurans. Mattuaza appealed to Khatti king for help. At this Shutarns wanted to kill him. But Mattuaza escaped and came to the Khatti court Shubbiliums gave his daughter in marriage to Mattinage on condition that her son will be the only successor to the throne and reinstalled him on the united throne of Harri (Arya) and Mitanni Harri (Arya) Akit Teshub (Accita Kesaba) fled with 200 chariots and followers but Karan dhnesh (Media) king robbed them of their chariots and other belongings The treaty tablet between Khattı krig Shubbillums and Mitsuna Mattuaza found in Boghaskeni was signed in 1880 B C in which Mitra, Indra Varuna, Nasatya are invoked as

witnesess At Rhas Sharma, a great hall as a royal stable for houses with stone mangers has been found. The Mitannis were experts in training horses to use them in battle for war chanots. Mitanni was a dangerously powerful military state. A Mitanni tempered and hardened iron battle axe having a bronze socket with molded ornaments representing a wild boar and two lion heads from whose gaping mouths projects the blade of the axe, has been found (I. N. Jan 6—1940). In the Zagros Range there were two allied tribes Guteans (Gādhi) and Matiani (Mitanni). These two amalgamated tribes coming to India formed the Kusika (Kassite). Gādhi dynasty of Kānya-Kubja

Tocharı (Tokharı, Talıks, Puranıc Tushara, Takshaka Nāgas) was Aryan, speaking centum variety of Aiyan speech Tochari is Yuechi, Assi-Asvaka In 300 B C Yuechi occupied western Kansu The Hiungnu=(mixed Alpines) quitted their pasturages in Western China shortly after the construction of the Great Wall of China in 214 BC, which was built to repel their attacks Hiungnu attacked Yuechi Yuechi conquered the green-eyed tall dolichocephals Wusan (Caspians) who lived in the basin of the Ili river and settled for sometime in this territory (170-140 B C.). The Tochari then attacked Sakas (Chinese Se, Sek = Sacae) and drove them to Iran and India In 159 B C Tokharians entered Sogdiana (Sudugdha) and in 139 they conquered Bactria and in the next generation they had destroyed the Greco-Bactrian kingdom and on their ruins established in Western Turkestan the powerful state Tokharia middle of the first century BC the whole of eastern Iran (known as Tajiks) and Western India belonged to the Tocharians who ruled under the name of Kushans The most famous of the Kushan kings was Kanishka (123—153 A-D), the patron of Buddhism But the principal seat of Tocharian Kushan power remained in Bactria and Samarkhand Kushan dynasty began to decay about 320 A D Gupta empire rose on its ruins In Tocharian language Martreya Samhita—a Buddhist drama has been translated Sudughdha—Sudhuka—Suliki—Sogdina—Samarkhand Sulikhas translated Nilakanta Dharini, Dhrigha Nakha Sutra, Besa Santara Jataka They followed Sravastıvāda Buddhism in seventh century A D A Tocharian scholar

Avar confederation dominated the Volga steppes till 555 A. D where they were defeated by the Turks In 556 moving westward they dominated the country west of Caucasus Then they moved westward to present Galicia and extended their suzerainty from the Volga to the Elbe and to the Baltic In 567 Avars defeating Gepidae occupied Transylvania and the Danube Theisa basin. Their Khagan Baian made the Avars the greatest power in Europe and exacted from the Byzantine emperors an annual tribute of 120 000 gold pieces an elephant and a bed of pure gold In seventh and eighth centuries Avars ravaged both Ger many and Italy sometimes in conjunction with Lombards In 799 their Khagan was baptized to Christianity near Petronel, and Avar name his disappeared from Europeen history But Bayaria Baden and Saxony are infiltered with Alpines. Poland and Bohemia, Czecks Slavika are Alpines mixed with Palae Alpines All south Slavs and Southern Russia have dominant Alpine po pulation Avars who came to India as a tribe of the Sakas are known today as Abhiras or Ahirs who are found all over northern and western parts of the country usually mixed with Australoids And Khazars have became Gujars (Gurjara) and after them Gujanwalla in the Punjab and Gujarat in Western India have been named. They settled in Rajputana between 400-600 and migrated westwards into Guirat

Celts were formed as a mixed people of Alpines with the Caspian and a slight mixture of the Aryan elements at least under their linguistic influence. The Celts were thick set brachycophalic people of medium height aquiline nose, oval face light auburn hair and grey eyes in central western parts of Europe They were known as Gaels or Gauls Through the Danube basin Galatians (Celts Relts) became they occupied Anatolia Khattis later known as Hittites It is known that Casman Naramsin son of Sargon of Agad, fought a victorious battle against a coalition of kings including Pamba king of Khatti Zipani king of Kanesh (Mitanni) and Khuvaruvash king of Amurru. Khattı language had it it elements of contum variety of Aryan speech One Kikkuli a Mitanni, wrote a book in Khatti language on the management of horses and chariot races In it arkavartanna (Skt eka vartana - one turning) teravartana

(trivaitana = three turnings), panzavartanna (panca-vaitana = five turnings) are mentioned. In the Hittite Mitanni treaty tablet of 1380 B C. Mitra, Aruna (Vaiuna), Indara (Indra) and Nashatti (Nasatya = Asvins) are invoked as witnesses of the Oath. Hittite Arunash is sea, and Arunash is the name of the god. Hittite Aknish or Agnish is Vedic Agni Inai (Gk aner) is Skt Naia and for Narāyana. Arinna is the sun-goddess = Skt aruna = morning sun. In the Hittite Rameses treaty (1260 BC) India is tianscripted in Egyptian as ntity Kulshesh—the patron deity of the clan—is Skt kula = clan, isa = lord = kulesa = guardian deity of the clan = Etruscan Culsans. Hittite vadar = Gk Udoi = Skt. Udana, uda, Lat und = wave. Eku = drink = Lat aqua = water.

Hittite—Sanskrit Verb Endings

	Hittite	\mathbf{H}_{1} ttı \mathbf{t} e	$\mathbf{Sanskiit}$	\mathbf{G} reek	Sanskiit
	Singular	Plural	Sıngular		Pluial
1	Jam_1	Javeni	Y ā $f m_1$	T_1 themi	$Y\bar{a}mah$
2	Jashi	${f J}$ atteni	Yāsı	Tithes	${ m Yar{a}tha}$
3.	$\mathbf{J}_{\mathbf{a}\mathbf{z}_1}$	Janzi	$\mathbf{Y}\mathbf{ar{a}t}_{1}$	\mathbf{T}_{1} thesi	$Y\bar{a}nt_1$

Khattı had brachycephalic head, aquiline nose, sloping forehead, flattened occiput Khattı kept pigtail under a conical hat His shoe had upturned toes, indicating that the Khattı migiated from a snowy land Though the capital of Khattı was Boghaskeui by 2000 B C the Khattı dominion extendended up to Carchamish (Jorablus) on the west bank of Euphrates By 1758 B C the Khattı was the most dominant power in Asia Minor and not only vanquished Khalap (Mitanni), but even overthrew the powerful Babylonian Amorite Hammurabi Dynasty By 1685 B C the Khattıs conquered Egypt and ruled it for 511 years under the title of Shepherd Kings whom the Egyptians called Hyksos which in their language meant foreign rulers, or Hyksos may be a variation of Hekkhos, which Khyan assumed, meaning ruler of the barberians Aryans prided to call themselves Tameis of Horses (Asvapati) and shepherds of the people (Gopāla) The Egyptian insurgents even fought the Khattıs in Syria and conquerred Carchemish on the Euphrates, and by 1500 B C the conquest of Syria was complete with the aid of Mitanni Taking advantage

Avar confederation dominated the Volga steppes till 555 A D where they were defeated by the Turks In 558 moving westward they dominated the country west of Caucasus Then they moved westward to present Galicia and extended their suzerainty from the Volga to the Elbe and to the Baltic In 567 Avare defeating Gepidee occupied Transylvanis and the Danube-Theiss basin Their Khagan Baian made the Avers the greatest power in Europe and exacted from the Byzantine emperors an annual tribute of 120 000 gold pieces an elephant and a bed of pure gold. In seventh and eighth centuries Avars ravaged both Ger many and Italy sometimes in conjunction with Lombards In 799 their Khagan was baptized to Christianity near Petronel, and Avar name his disappeared from European history But Bararia Baden and Saxony are infiltered with Alpines Poland and Bohemia, Czecks Slavika are Alpines mixed with Palae Alpines. All south Slavs and Southern Russia have dominant Alpine po pulation Avara who came to India as a tribe of the Sakas are known today as Abhiras or Ahirs who are found all over northern and western parts of the country usually mixed with Australoids And Khazars have became Gujars (Gurjara) and after them Gujanwalla in the Punjab and Gujarat in Western India have been named. They settled in Rajputana between 400_600 and migrated westwards into Guirat

Celts were formed as a mixed people of Alpines with the Caspian and a slight mixture of the Aryan elements at least under their linguistic influence. The Celts were thick set brachycephalic people of medium height aquiline nose oval face light suburn hair and grey eyes in central western parts of Europe. They were known as Gaels or Gauls. Through the Danube basin they occupied Anatolia Galatians (Celts Kelts) became Khattis later known as Hitties. It is known that Caspian Naramsin son of Sargon of Agad, fought a victorious battle against a coalition of kings including Pamba king of Khatti. Zipani king of Kanesh (Mitanni) and Khuvaruvash king of Amurris. Khatti language had it it elements of centum variety of Aryan speech. One Kikkuli a Mitanni, wrote a book in Khatti language on the management of horses and chariot races. In this language on the management of horses and chariot races.

misconduct should have been repeated Mother put the son's clothing outside the house to notify his banishment. If the son was received back, the son had to bring some furniture which mother carried to their places. Penal public punishments were inflicted by the state for the offences of murder assault abortion, neest sodomy kidnepping theft and damage. Slaves guilty of theft or arson were only mutilisted. Forced labour was inflicted for misappropriation of property. The husband could punish his adulterous wife as he pleased even with life and death it was a private personal offence and not a state concern. The person of a debtor might be taken as a security for debt, and the person could be released by the payment of the indebted amount by any one. Khatti become Kshatriya Purus in India.

3 -ANIMALS OF BHARATAVARSHA

Aja—Goat—was sacrificed even in Asvamedha yojna (Rv 1, 162 3; Vs 25 26); in other offerings (Av 4 14; 9 5 Vs. 19 89 21, 40 28 29 In making fire pits he head of a goat was placed with the heads of horse bull rams (Vs. 13) In funeral ceremony a kids head was placed on the dead body in funeral pyre (Vs. 11, 16). And goats milk in some coremonies (Vs. 11 16 s 4 1 6 5 4, 3). Ala—Lith o ys. Gk. aix; Ar aic. Asva—Horse—was used in war (Rv. 1, 36, 8; 3 52 24). Horse drow chariots ((Rv. 5 56 7; 9 112 4) and war chariots (9 12, 1). Two horses (2 24 12; 6 47 9) and oven ten (8 3 23; 8 46 23) horses were used in drawing the chariots. Rope tied the neck of horses (7 104, 6). There were horse races 10 97 3; 10 143 1 2) and horse back aides were whipped with lashes (6 75 13). Horses were insaged (1 135 5) and given baths (8, 2, 3; before war 9 82, 2). Tired horses were given rest and drinks (2, 13 5). Sick horses were nursed (1 117 4). Grass was the food of horses (6 3 4; 7, 3 4). Horses carried loads (3, 38 1) and grains (1 30 17 7 37 6). Horses were sacrificed (1, 103 163). Fountain sprang up from the hood of horses (Pegasus Att Br 51). Asva—frightan Aspa Lith Assoa., O Slavie Ehu;



misconduct should have been repeated. Mother put the son sciothing outside the house to notify his banishment. If the son was received back the son had to bring some furniture which mother carried to their places. Penal public punishments were inflicted by the state for the offences of murder assault abortion, nicest sodomy kidnapping theft and damage. Slaves guilty of theft or arison were only mutilated. Forced labour was inflicted for misappropriation of property. The husband could punish his adulterous wife as he pleased even with life and death it was a private personal offence and not a state concern. The person of a debtor might be taken as a security for debt, and the person could be released by the payment of the indebted amount by any one. Khatti become Kahatriya Purus in India.

3-ANIMALS OF BHARATAVARSHA

Aja—Goat—was sacrificed even in Asvanedha yajna (Rv 1, 162 3; Vs. 25 26); in other offerings (Av 4 14; 9 5 Vs. 19 89 21, 40 28 23 In making fire pits the head of a goat was placed with the heads of horse bull rams, (Vs. 18) In funeral ceremony a kids head was placed on the dead body in funeral pyre (Vs. 11 16). And goats milk in some ceremonies (Vs. 11 16; s. 4, 1 6 5 4, 3) Aja—Lith orys Gk. aix, Ar aic. Asva—Horse—was used in war (Rv 1 36 8; 3 53 24). Horse drew chanots (Rv 5 58 7; 9 112 4) and war chariots (9 12 1) Two horses (2, 24 12; 6, 47 9) and even ten (8 3 23; 8 46 23) horses were used in drawing the chariots Ropes tied the neck of horses (7 104 6) Thore were horse races 10 97 3; 10 143 1 2) and horse back sides were winpped with lashes (8, 2, 2 before war 9 82, 2) Tired horses were given test and (drinks (2, 13 5). Sick horses were nursed (1 117 4) Grass was (the food of horses (6 3 4; 7 3 4). Horses carried loads (3, 38 1) and grains (1 30 17 7 37 6). Horses were sacrificed (1, 162, 163). Fountain sprang up from the hoof of horses (Pagasus Ait Br 51) Asva—raktan Aspa Lith Asva, O Slavio Ehu;

Gk Hyppos, Lat Equus, Teutonic Ehu, Tocharian Yakwe Skt asu, Gk Okys, Lat acer, from which Asva has been derived means swift runner Akhu—Mouse (Mus decumanas Pallus) was destructive to barley grains (Av 6, 50, 1) and Soma was praved to destroy it (9, 67, 30). Uddalaka (Av 3, 29) was Ovis vigner Blyth Udra (Vs 24, 37, Ts 5, 5, 20) is Otter = Lat lutra = Lith = udra Avestan udra O Slavic vydra, Teutonic otter = Greek ydros Ushtra (camel) was used in war and as a carrier of food grains (1 138, 2, 8, 46 28) Riksha (Bear) was sacrificed (Vs 26, 36) Rikshas are Ursa Major and Minor (1, 21, 10) Riksha = Greek arctos, Lat ursus, Alb arr Arm arr, Tocharian yurs "Impetuous like a bear (Riksha) O Maruts, is your rush, terrible like an enraged bison (Gaur = Bos gaurus)

Rishya (Boselaphus tragocamelus) is called in Bengal Nilgāyi, Hind Ris (8, 4, 10, Vs 24, 37) Nylgai is found in Northern India It has short horns, a black mane a grevish brown colour and a bunch of long hair on the thioat Ena (Av 5, 14, 11, Vs 24, 36) is Kiishnasāra (Antilope cervicarpa) Kapi (monkey) injures dogs (Av 3, 9, 4) Biishakapi (Giant Monkey) is Monoceros Indiāni, the queen of the heaven (Virgo), complains to Indra that staglike vellow Vrishākapi makes love to her though she is not yet depived of her lord's (Indra = Centaurus) love, and 'no woman is pretty like me and none more voluptuous and and no woman knows better than me the arts of copulation (10 86 6) Kasa (Vs 24 26, Ts 5, 5,17) is a kind of mouse (Mus bandico) Kasika (Lith szeszkas) is weasel Bhavayavya 'chief of Sindhu, says of his wife Romasa, daughter of Angrias Brihaspati, the pilest of Vaisali king This insatiable and unquenchable woman like a weasel (kasikā) moistened with orgasm is giving me in her ardent embraces a hundred gratifications (1, 126, 6) Kulunga (Vs 24, 27) is a kind of gazelle (Cervus porcinus) In Prakrit it is called Kuranga (Gazella Bennetti) The gazelles are noted for the lustre and soft-expression of the eyes. Krishna (Vs 2, 1) is a kind of black antelope, called generally Krishnasāra (Black Buck) It (Antilope cezoartica) is an intermediate between the deer and the goat with annulated or ringed horns, when the bucks copulate, they spring with quick plunging leaps, descending with

the forelegs rigid and the head held as low down as possible. Krosta. (A. 28 4) is Jackal. This is thy riddle (O Indra) The river (Milky Way near Centaurus iflows upwards Fox (Lopasa—Leo Minor) howls at the roaring hon (Simha—Leo) The Jackal (Krosta—Norma) attacks the wild boar (Varaha—Lupus X, 8, 4) Khanga (Vs. 24 40) is rhunoceros (Rhinnouros unicordis: Govaya (4, 21, 8) is prayed for Gavaya (Ts. 5 5 11) was sacrificed. Gavaya is Mithan (Bos frontalis) Gardava—Rasava (ass) is the carrier of Asvins (Pegasus 1 34, 9; 8, 85 7) Fools have been compared with asses (3 3 23) Braying of donkeys is unpleasant (Av 8 6, 10)

Go-dhenu. ./dhe=to suck dhe-nu=milch cow Gk the le= teat thelus - female the sato - he sucked Lat. fe-lare - to suck fo-mina - woman; fi ha - daughter Goth daddian - to suck Usrs = cow without calf vasa Bull - Vrisha, Ukshan = castrat ed bull or steer - Tarnak Danya and Sanda Cattle with horses sheep and goat formed the wealth of the Aryas. Pasu (animals Lat peen Greek pelos) became pecunia (pecuniary) Bharadvāja (6 28 5-6) says. To me cows are Bhaga cows are Indra. They are the best ambrosia of Soma. O Indra, I long heartily for these cows. These cows (products of cows) fatten the lean They develop the beauty of even the unlovely O cows prosper my house (artham) with your anspicious voices. Even in our assemblies (Sabha) your braise is repeated. It was a delight for the Aryas to see their cows return from grazing lowling for their calves. As cows low to their calves in stalls so with our sougs we glorify you O Indra (8 88 1) Like a character (O Indra) come swiftly to us as calves rush skipping delightfully to their mothers (8 9) (84) 1) Milk was made into curds (9 81 1 Av 9 4 4) Milk (paya) and its product ighritan liquid butter) were added to Soma drinks (J.315) Beef and milk were the favourite nourishing food (6 39 1) as well as us mutton horses and goat's flesh (Av 6 71 1) In ox hide (go) receptacle are kept the tawny Soma drinks mixed with mil (9, 05 25-26; 1 28, 9) Indra makes the ruddy or black cow yield white milk (1 162 9) Body was covered with garments of cow hule (8 1 17) Oxen were used for ploughing Larley fields (1 23 15) Two oven were made to draw a wallon

(5, 27, 1; ×,85,11). Before Agni hoises (Asva), bulls (Rishabha). oven (Ukshana), cows without calves (vasā, and rams (mesha) were sacrificed (×, 91, 14) Vrishava is constellation Taulus "Vilshaya (Taulus) and Sisuamāra (Cetus) ale yoked together (adjacent constellations . 1,116,18) Go Avestic gao; Old Slavic govedo; Teutonic chuo Alm Low English cow Vasa (cow without calves) is Latin vacca (with calf), French Vasa (cow without calves) is Latin vacca (with calf). French vache Dhenu (cow) = Celtic dini Ukshan (ox) = Latin urus, Lithuanian aurochs. Teutonic ouhsa, Cymbric ych, English ox Tarnak (steel—castiated bull Av 3, 9, 2)—Avestan staora, English steer Gaura (1, 21, 8, Av 20, 22, 2) is a kind of bison—Bos gaurus Jatu (Vs 21, 25) is a kind of bat (Ptelopus medius) Jahaka (Ts 5, 5, 18) is either hedgehog of porcupine Tayadara (Av 6, 72 2) is a kind of goat, used as an aphrodisiac, possibly Hemitiagus Jemlaicus on the Himalayan border Tarakshu (Vs. 24, 40, Ts 5, 5, 19) is possibly chetah leopard (Acinonyx jubatus) Dvipin is panther. In Athai vaveda (4, 8, 7) a king's strength has been compared with that of vyāgia (tiger), simha (lion) and dvipin (panther). Nakula (mongoose) teals out snakes (Av. 6, 139, 5). Nilasirshni is a blue headed monkey belonging to genus Cynocephahu. Nyanku (Vs. 21-27) is a kind belonging to genus Cynocephahu, Nyanku (Vs 21-27) is a kind of Kuianga Gazella bennetti. Pankra (Vs 24, 26, Ts 5, 5, 18), called also Pitva (Vs 24, 32, Ts 5, 5, 17), possibly also Parasvata (Av 6, 72, 3, Vs 24, 2-, Ts 5, 5, 21) whose flesh is as an aphiodisiac, is a kind of ibey wild goat with large recuived horns Skt Bukka=Hind Bukā—Avestan buza, Teutonic boc, Celtic bocc, Armenian buc Mayu (Vs 13, 47, 24, 31) is musk deer (Moschus moschiferum) Markata (Vs 24, 30) is a kind of monkey (Macasus thesus) Mahisha is water buffalo. Its meat was very much relished (5, 29, 7, 8, 6, 17, 11). Manthala (Vs 24, 38, Ts 5 5, 18) is possibly vampire bat Musha is mouse Parsavah (Parsa, Persis Fars and Parsia named after them Alpines) are harassing me, "as if pressed by rival wives (sapatni) Poverty, lack of clothing and fatigue are distressing me My mind is restless like the flying birds. As Musha (mice) eat up sisna (artificial penis made out of leather) so cares are consuming me—thy praiser—O Satakratu (India), Pity us O India, dweller in Magha (Regulus in Leo), that is summer solstice). Be thou like father unto us (×, 33, 2-3,

1 105 81-Trasadasyu Kurusravana. Musha-G. ...us Lat. mus; Old Slavio misy Teutonic mus; A baxon mus; German maus; English mouse; Nordio mus Armenian muken. Skt. mush to steal, musha = a stealer a mouse. Gk. mus = mouse, muscle Lat mus - mouse, mus culus - a little mouse muscle. Mriga Hastin is an animal with hand (hasta) like prehensible proboscis that is elephant Buffield is also called Mriga Mahisha (9, 92, 6, 9 %) 7) Indras strength has been compared to that of Mirga Hasti (elephant) and powerful Simha (hon 4 16 14) Elephants eat up the forests (L 64 7) Wild elephant rushes furiously The elephants (Hasti) and panthers (Dvipins) (6 83 9) are praised for their strength (Av 6 38 2) Nakula (mongoose) tears out snakes (Av o 130,5) and knows plants as antidotes to anake poisoning (Av 8 7, 23) This atribute has been ascribed to mongoose, for it is generally free from snake poisoning and it is the enemy of the snakes. Mesha (sheep) was one of the most valuable domesticated animals of the Arvas Mutton was a prized nutrient Sheep's wool (urna) was used for garment Its skin was also used for the same purpose (Vs. 13, 15) The raiments were woven and dyed (× 26 o) Wool was also used for filtering some drink (× 50 %) Wool was pressed into felt to lie upon as a soft bed (× 18, 10) The fatted lambs were cooked in fire (× 27 17) Rams bulls horses oxen and barren cows were offered for sacrifica (x, 91, 14) The virility of rams he goats bulls horses and mules have been praised (\v + 4, 8) Gandhari lambs were famous for their wool Romasa boasted to her husband Bhayayayya of Sindhu Mount up Embrace me closely I am voluptuous in venery My vulva is buxom and is covered with hair like that of the lamb of Gandhara (1 120 7) Because the sheep produced the valuable soft wool (uma), sheep were called uma another name of sheep was Asi (8 2 2 9 6 1) Ari-Old blavic avica Lith. awis, 6k Ois Lat Ovis Teutonic auwi Celtic Oi Wolves (vrika) were the enemies of sheep (ura 8 34 3; 8, 66 8) Rurn (Va 21 39, is a kind of thex (Corvus duvanceli) Lopasa (10 28, 4 Ta. 5 5 21) is Jackal whose another banskrit name is Srigala—Iranian shagal Babbru is used in Rigieda (x 34 11) in the sense of Teutonic brun (brown) But Babhruka (Vs 21, 20) is a beaver. The beaver, an amphibious rodent

with palmated hind feet and broad flat tail, has a brownish fur Babhruka = Avestan bowri, Old Slavic bebru, Lith. bebrus, Latin fiber, Teutonic bibar, Noidic bjorr, Anglo Saxon befor, German befer, English beaver

Varaha (boar) has brown coloured tusks (1, 88, 5) There is also a Varaha in the sky (1, 114, 5 Lupus) whom Indra transfixed with his thunderbolt (1,61,7) Dog (Svan) bites the ear of the boar (×, 86, 4 Canis Major and Lepus). Varaha = Avestic varaza, Lat veires, Old Slavic bei, Russian borovu, Teutonic bar, Anglo-Saxon bar Sukararswine) is to be avoided (7, 55, 4). The swine digs plant with his snout (Av 2-27-2) Sukara = Avestan hu, Lith. sviniza, Gk hys, Lat sus, Teutonic su, English swine Vrika is wolf While I was travelling on foot, a brown wolf seeing me, silently fled, lowering its back, as a carpenter suffering from back-ache lowers his (1, 105, 13) Vrika terrifies sheep (8, 34, 3) Goats and lambs flee from virka (Av 5, 21, 5) It is a dangerous animal (Vs 4, 34) Because it kills kids and lambs, vrika is called vatsan ghātuka (Av 12, 4, 7). Asvins (Pegasus) saved vartika (quails Cygnus) from the devouing mouth of vrika (Andiomeda 1, 116, 14, 1, 117, 16) Vrika = Avestan Vehrka, Lith. wilkas, Old Slavic vluku, Gothic vulks, A Saxon wulf, Gk lykos, Lat lupus, English wolf. Vyagra (tiger) is not mentioned in Rigveda, but in other Vedas (Av, 8, 5, 11, 4, 3, 1, Vs 14, 9, Ts 6, 2, 5) it is called a ferocious animal Tigei is immune from diarrhea (Vs 19, 10) In coronation of kings tigei skin seat was used (Av 4-8-4) Salavrika is hyena "Do not tiust in woman's friendship She has the heart of a hyena (10, 95, 15) Sasa is hare Sasa has swallowed the shaip projectile (Kshuiam) that has been thrown against it (10, 28, 9) Possibly the Sasa is here Lepus and kshuram is a projection from the right hand of the Olion Sasa—Iranian sasin, Cimbric haas, Tocharian sui, Teutonic haso, German hase, Anglo-Saxon heare, English have

Svan (dog) was a domestic animal and carried loads like horse, camel, and bull (8, 48, 29) Dog used to watch the house, and was its guardian spirit (Vastoshpati 7, 5, 5) "When thou O Sarama's son (dog) showest thy tawny hued teeth, they

gleam like lance points then thou wouldest bite Bark at the robber and bark at the thief (7 55 2 3) A maiden in order to go to her lover unnoticed is making magic incantations to juduce sleep to her parents other inmates and particularly the dog privations Vamadeva ate dogs intestines (7 65 5-8) In (8 18.13) Two dogs (Canis Major and Canis Minor) dark hued with distended nostrils guard the path way (the Milky Way) of Yama-Perseus (10 14, 11 12) Cvan divya (Hevenly Dog) of Atharva Veda (6 80 2) is Canis Major and Kalakanja are the asteriams in the belt of the Orion. Svan - Avestan spa = Inth. sru = Gk. kyon - Latin cans = Gothic hund = Celtic cu Arm. sun - English hund Sunha (lion) roars (1 64.8) like a thunder (Av 1 65 8) Lion is ferocious (5 15 8) Lion was ambushed and captured (5 74.4) Lion sometimes escapes with the trap (x 28 10) Samha is high visible and brilliant and is venerated (Leo the abode of Pitris 1, 95 5) Harina is a kind of gazelle Harma is fleet in its movements (1 163 1 5 78 2) but lives on grass. It has darting restless eyes (9 32 4) Hunters chase Harina (8 2, 6); its meat was relished its hide was used for wearing and for making war drums (Av 5 21 7-8) and the rubbed paste of its horns was used in kehetraya thereditary diaseases where there is deficiency of calcium Av 8, 7 1) Haring = Avestan sasrana

Lions within historic times inhabited Northern Greece and Macedonia. Its range extended through Mesopotamia and Iran into the plains of Northern and Central India They are only found now in the Gir forest of Jungadha not numbering more than a hundred. They rest by day under cover At dusk they come out in quest of food. Their roars are heard through the night more noticeably at dusk and just before day break. Single hon with an attendant troop of females is usually seen. The lion drives the game and a honess kills it and half grown cubs when present helping. The mating season of the lion is usually between October and November and the young are born between January and February The honess has her first litter when she is about 31-8 years old, and the young are produced at the intervals of 18 months to 2 years. The gestation period is 108 days. Tiger is found

in Manchuria, Eastein Siberia, Amuiland, Mongolia The most western limits of its migration appear to be the vastern slopes of the Caucasus and the forests of the Elburz Mountain Southwards its lange extends through China, Bulma, Slam and the Malays to Sumatra, Java and Bali It entered India through the hill ranges of Assam It colonised the thickly forested southern slopes of the Himalays and subsequently established itself in the humid evergreen forest region of the Peninsula But it is not found in Ceylon, which indicates that before its airival, Ceylon was separated from the mainland But the tiger is depicted on many seals of Mohenjo-daro Tigers in Northern Asia assume a heavy winter coat which is shed during the spring Similarly Indian tigers moult their finer winter coats on the approach of the hot weather An immigrant from cooler northern China, the tiger needs shelter under cover or covert in the day from the heat, as his pad may blister from long contact with hot ground or sand Ordinarily the tiger when hungly goes out to seek his food shortly before sunset and ends his hunting at break of the day Cattle, various species of deer, nilghai, pig and polcupine are the common prey of the tiger like the lion Like the lion a tiger generally disembowels the body and places the entrails to one side It may take a tiger the best part of two hours to finish the hind quarters of a bullock After satisfying his hunger the tiger goes to drink and then to sleep in a cool shelter Tigers seedom ioar When they do, they roar like lions Deep and thilling, the repeated gusts of sound increase in volume and fill the air with reverberations It is their mating call They mate after the rains and the majority of the young are born between February and May The gestation period is 15 weeks. As many as 6 cubs may be born in a litter But not more than 2 or 3 survive The mother tigress trains her cubs to hunt Panther survives in the Kuban area of the Caucasus In Asia its range extends from Palestine and Syria through Persia to Manchuria and Southward its territory reaches through China into Burma, Malayas, Java, the whole of India and Ceylon It came before tiger, otherwise could not reach Ceylon Their prey consists of various kinds of antelopes, monkeys, sheep, goats, pigs and porcupine The commonest call of the panther is a

succession of deep intakes of air and hoarse barking coughs, an interval of a second separating each respiratory effort. The gestation period of panthers is 3 months. A pair of panthers in captivity had three liters in \(^1\)_1 years. The sexual activity in the female recurs shortly after the production of a litter Having acquired a mate the procreative impulse overcomes all accustomed considerations for secrecy and silence. Mating may continue even after pregnancy. In a lioness in captivity periods of rut about a week in duration occurred, at intervals of three weeks till the animal became pregnant Leopard (Cheetah) is found in Turkestan and Transcaspian. In South Western Asia, its range extends from Iran Mesopotamia Syria, Palestine. Africa Afganisthan Baluchustan Sind. When captured young it can be tamed. The Striped Hyena is found in North and East Africa Asia Minor and India The Brown Bear (Ursus arctus) is found over the temperate regions from Spam to Japan. It can be trained to dance to music. The species exhibited by Indian jugglers is the Sloth Bear (Melurus labiatus) which lacks a pair of upper moseors.

B—BIRDS—Vaya (bird) nests upon the tree at night (x 127 4) and with the dawn birds fly forth from their reating places (6 64, 6) Alaja (Vs 24 34 Ts 5 5 20) is possibly Spilornis cheels. Aliklava is an owl feeding on carrion. Make not our bodies (0 Rudra) for the sums dogs) krostu (foxes) Aliklava (cwis) Gridhra (vultures) and Krishna (crows Av 11 2 2). "Let the Aliklavas (owls) Jakamada (buzzards) Gridhra (vultures) Syena (falcons) and Dhruikha (kites) and Sakuni (hawks) satisfactorily identify us among the fallen (before they devour us Av 11 9 9] Aliklava=Gyactus barbatus hemschalanus Jaskamada—Sercogyps calvus Gridhra—Neophrous perconopterous Syena—Falco peregrinus, Dheank Sakaka—Corvus Corvus (corvus corone orientalis Sakuna (GK Kuknos)—Gyps indicus nudiceps. Ati is (Vs 23 41) is Bengali Shika (Acridotheras ginginanus) Ati is (vs 23 44) is Bengali Shika (Acridotheras ginginanus) Pururavas Apsaras (celestial nymphs) like ducks (Ati) show the beauty of their body but in their amorous sports like horse they nibble with their teeth (10 95 9) Ati—Luth.

antis-Teutonic anut, Nordic ond, Latin anas, Gk. nessa, Spanish anade, English duck Uluka is owl. It feeds on cadavers "Devour the enemy like owls (Uluka), owlets (Susuluka), dog and carrion clows (Kokoyata) Destroy him; like an eagle (suparna) or vulture (gridhra) 7, 101, 22) scieeching of the owl is mauspicious (10, 165, 4) Uluka is the messenger of misfortune and death-Niriti (Av 6, 29, 2) Being messengers of death, consequently of ancestors, the snow-owl became sacred to the Caspians, especially of Artemis It was also sacred to Ishtar, and is still associated with the Hindu Lakshmi (Tyto alba jaradica Uluka-Lat. ulula-Teut wela, Anglo-Saxon ule, Gei. eule, English owl) Kakara (Vs 24, 20) is a hen (Gallus bankiva) Kanka (Vs 24, 31) is a kind of crow (Ardea cincia) Kapinjala (Vs 24, 20, Ts 5, 5, 16) is a kind of partridge (Frakolin partridge) which appears in the spring like chakara (Alectonis gracea chukar) which is described as Kakara (Vs. 21,20) Kapota is dove Kapota has been praised for its copulating power and propensity (1, 30, 4) Dove has been found associated with the Mother Goddess of Crete, Babilonia Mohenjodaio Kapotas and owls are messengers of death (×1-66, Av 6-29-2) The constellation Perseus (Yama) is represented holding a severed head of Gorgon in his left hand, and waving a sword (Yama Danda) in the light hand, his legs have the wings of pigeons Columba [pigeon] is also near the hind of feet of Canis Major, which is also the messenger of death Kabalinga (Vs 24-20) is quail. Fly away Yakshma (the spirit of consumption) with bluejay (Chāsha) and king-fisher (kikidivi) Fly away with wind's impetuous speed, and vanish with the stoim (x, 97, 13) Kirsa (Ts 5, 5, 10) is possibly the singing bird Psittacula cyanocephala (Suka) Kulika - Pulika (Vs. 24, 24) is Calendrella branchydoctyla Kuvaya (Vs. 24-39, Ts. 5-5-7) is the water fowl—Larus ridibundus. Krishna is kite -Corvus coione orientalis "Whatever wounds Krisha (kites), Sakuna (hawks), ants (pipila), snakes (sarpa) and svapada (jackal) have inflicted, let Agni who devours everything, cure them (×, 16, b) Krauncha (Vs. 24-22, Ts 5-5-12) is wood-cock (Numenius arquata) Krikavaku (Av 5, 31, 2, Vs. 24-55) is the domesticated cock Its viritity has been praised (Av. 20 136-10) Khargala

(7 104 17) is owlet Khvinka is a kind of a kite Let spotted carrion eating kites (khvinka) devour him (× 87 7) Gridhra (vulture) can fly very high (1 118-4) and its eyes are very sharp (× 128-8) and feed on carrion (Av 10-11-8) Goshadi (Vs 24 24) sits on the cattle and eats the bodily parasites—known as Salika (Acridotheres tristis) Ohakravaka (Brahmany as Saika (Acricotheres trisus) Unakrayaka (Branmany duck—Casarea ferruginea) is noted for its conjugal fidelity and the pair lives together (11 39-3); Unite this pair O Indra like two chakravakas let them with their progeny well homed live out all their life-time together (Av 14-2-64). It is said in Tibet that if one of these ducks is killed the other pines to These that it one of these ducks is killed the other pines to death as it cannot bear separation Tittir (Vs. 24.20) is a partridge (Francolinus interposetus) Paravat (Vs. 24.25) is a pigeon Datyanha (Vs. 24.27) Ts. 5.5 17) is kind of pigeon—Gallinula chloropus. Pika (Vs. 24.39) Ts. 5.5 15) is cuckoo. It lays eggs in the nests of other birds for it is called Amyavap. It is the favourite bird of Kama (Eros) Puskarasada (Vs. 24 31) is a kind of crane Paingaraja Vs. 28 38 Ts. 5 5 12) is a gull. Plava (Vs. 24 34 Ts. 5 5 20) is heron. Madgu (Vs. 24 22 Ts. 55 10) is a kind of stork Mayuri (peahen) destroys poisons of snakes (1 91 14 Av 7 26, 7) Mayura (Vs 24 53 Ts 2, 2 16) snakes (1 91 14 Av 1 25, 7) mayura (vs 22 55 16 2, 2 17)—the peacock is noted for the beauty of its plumage Ropanaka according to Sayana is Salika with yellowish beak—Acridotheres tristis. Let my jaundice (harman) be transferred to perrots (suka) and starlings (ropanaka) or let this jaundice be transferred to yellow water wagtail—Chloropsis aurifrous (Haridfava – Gk. Karadrios 1 50-12) Suka (parrot) is noted for reproducing names and words, if taught Lava (Vs. 24, 27) is Turnix tanki, Lopa is (Ts.) is carrion crow—Sercogyps calvus Vartika—Gk ortyz Lat coturniz Teutonio cahtala German Watchtele Toch, wolch Eng wagtail. Vahasa (Vs. 24 84) builds a next hanging from the tree—Ploceus philippinensin known in Bengali as Babu. Susuluka (7 104 22; Av 8, 4 22) is owlet—Glancidium radiatum Suparna 14 Eagle Suparna brings Some (ambrosia) like Syens to man (4 23 4) It is said. that Syena stole the jar or ambrosia of heaven Babylonion storm bird Zu stole the tablets of heaven. It means that as Aquarius has no first class star Aquila has taken its place A greenish paint, supposed to cure leucoderma

(Dhaval) is made from the bile of Suparna (Av 1, 24, 1) Suparna, is amorous (Av 2, 30, 3) Hamsa (swan) swims in water (1, 65, 5). Hamsa has bluish back (Nilapiishta 7, 59, 7, Saicidoinis melanonotus) Hamsa, the constellation Cygnus in the Milky Way, is the heavenly swan clothed in light (4, 40, 2). The swan is golden-pinioned and is seen in the morning sky (4, 45, 4). Hamsa — Gk Hen, Listin anser, Teutonic gans Lith, Zasis, Old Sl gasi, Sp ganso.

(Av 10, 5, 5) Nais tripudians (Being (Av 3, 27, 7, Tr 5, 5, 14) is Vipela russelli (Dinyyof) phis myclerizans Svitta (Av 3, 27, 6, Ts. 5, 5, 10) is the hissing coloured Lamcus mucosus Krikshamsarpi (Av 9, 2, 2)-Dryo-Ancietrodon himalayansus Lohitahi (Vs 24, 31) is the copper is the spotted viper Lachesis monticola Babiru (Av 5, 13, 5) throws away its skin (Av 1, 27, 1) and has oily appearance (Av 6,31,1) Possibly it is Lachesis gramineus Prisna (Av 5, 13) Dasonası (Av 10, 5, 17) is Ancistiodan hypnale 27, 2, 6, 62, 2, Te 5, 5, 101—Bungarus fasciatus Teimata (Av 5, 13, 6) is the Babylonian dragon Tiamat (Draco) Kairata (Av 5, 13, 5)—Bungalius celuleus Tiraschirali (Av 3, tripudians Kasarnia (Av 10, 4, 5, Ts 1, 5, 4) is Diyophia mycerterizans Kumbhinasa (Ts 5, 5, 14) is Glanconia blanfordi (Αν 10, 4, 13) is a big snake—Naia bungaius Kalmashagriva (Αν 3, 27, 5, 12, 3, 5, Τε 5, 5, 10) is the dangerous Maia (Av. (5, 13, 5) is a poisonous snake—Vipela lusselli Urguta is used once in Rigveda 110, 16, 6) as hurting people Upatirna possibly in the sense of constellation Serpens Only Sarpa Asita (Av 6, 56, 2 Vs 24, 37, Ts 5, 5, 14) is Virpudians Ant (Avestan Azhi) is the general name of seipent in Rigveda, but Te 5, 5, 14, Av 11, 2, 25) is Python molurous or Boa constrictor . 46. 42 sV) kirgel A insquer Light Azera (Vs 24, 34, 34, C-A MPHIBIA,-Sarpa (10, 16, 6) is Gk Herpo, Lat

Kundrinachi (1, 29, 6, Va 24, 37, Ta 5, 5, 16) is the geko, The kind that lives in walls, lafters is known as Platydactylus mutalis, a small calnivorous, mostly noctural animal with animal with which it can tun over walls and ceilings The other frequents which it can tun over walls and ceilings The other frequents which it can tun over walls and ceilings versicolor Krikatasa

(Vs. 24, 40; Ts. 5 5 9) is the chameleon Godha (Vs. 24, 35, Ts. 5 5, 15) and Mahishas (buffaloes) enter into water (× 28, 10) Godha kils Sasas (heres Av 4, 3 6). It is mentioned in the Puranas and Jatakes that Godha meat cooked in sour milk is very tender and tasty Godhā is the guans hrand-Varanos salvator Nakra Makara (Vs. 24, 35 Ts. 5 5 18) are dolphins and crocodiles. Though in Rigveda 4/3 ekapad—one-footed fish goat—is the Capricorius in astrology Capricorius is represented by Makara (crocodile) like the Egyptians?

Kasyapa and Kurma (Vs 24.37 Ts 5 5 17) are the tortone and turtle In Atharvaveda (17 1 27 28) Kasyapa has been called a luminary In later mythology Kurma (turtle) is the incarnation of Vishnu. In Rigveda Manduka (frog) represents Cancer But in Babylonian mythology Pulukku (turtle) represents Cancer Karkata (Vs 24-92) is crab—Cancer Manduka is frog At the commencement of the rain both the spotted (prisma) and yellowish (harita) Manduka (frogs) croak together like the cows (lowing with their calves beside them after their return from grazing) or the chants of the priests (Brahmana) at the Soma rites (7 108) But the Advaryus (planets) shine throughout the year while the Manduka is hidden in the rains (Monsoon commences with the Cancer 7 108 8-9) Manduki (10 18 14) is the female frog In Athraveda (4, 18 12) skeckled frogs croak by the water and intermittent fever (Savirama Jvara) is asked to transfer itself to frogs (Av 7 116 2)

D—FISHES—Matsya (Avestan masya) is only mentioned once in Rigveda (× 68°8) He observed the enclosed honey (maddu) as one eyes a fish (matsya) in scanty water Andhaht—mud cel. I grasped the the head of the snake as a fisherman (Paunjishta) catches Karvara (Av 10 4.19) And going in the middle of the river I washed away the poison of the snake Karbara is possibly Nepalese Kabra—Psendecheneis sulcatus found in swift mountain streams with a stony bed. The climbing perch—Anabes scandeus—is also called in Hindi Kobha; (Beng Koi) Jasha (Av 11 2-95 is Orenus siniatus Mahamatsya (Sat Br 14 11, 171) is Mahseer—Barbus putitors, the great tasty and sporting fish

found in mountain streams Raja (Av 11, 2, 25) - Catla catla Saluka (Av 20, 136, 1) the muddy fish—Ophicephalus striatus

(sol).

E-ARACHNIDS-Urnanabha (Sat Bi 14-1) is the spider that spins thread out of its tiny gland to form nests and traps for entangling their prey. Karkota (Ay 7, 56, 5-8) is the Vricchika-the scorpion having an elongated body and a narrow segmented tail with a venomous sting at the tip Sandansamukhi (Av 7, 56, 1) is a centipede Common red scorpion (Buthus tamulus) is found in the desert regions of India The black rock scorpion (Palamneus swammerdami), a very large species, is found all over India and Cevlon F-INSECTS-Arangara is the honey bee It is also Sarah' "Aswins bring them delicious honey (preyam madhu 1, 112, 21)" 'The Toiling bees bring honey and they hang it in the hide (honey comb) downwards (10, 106, 10)." "Like bees (Maksha = Avestan makhshi) in gathering nectar, women are expert in debauchery (10, 40, 6) Malsha generally means fly Malsha (Lat musca, Gk muissa) loves honey (7,32,2) 4, 45, 4) Alpasayu (Av 4, 76, 9)-a fly-irritates elephants. The fly deposits eggs within the skin of the clephant. The larvae cause ulceration and irritation to allay which the elephant moves his proboscis there With proboscis the larvae enter into the stomach and intestine and with the excretion the fly completes its life cycle. The fly is Cobboldia elephantis Upajihvika (Av 2, 3, 4, 6, 100, 2) is the ant. The earth of the ant-hill elected by the termites is said to be a cure menorrhagia and leucoithea (filux) Khadyota (Ch up) is glow-"When grasshoper's (vi ishai avas) shrills joins with the crickets' (chichika) chirping sounds, like the sound of tinkling bells, Aranyani (the (president deity of the foiest), is delightful (x, 146, 2) Javya and Pathanga are boring beetle and locusts, destroyers of grain (Av 6, 50, 1-2) Pipilika (Av 7, 56, 7) are ants Bhinga (Av 9-2-22) is bumble-bee Masaka (mosquito) stings cause poisoning (Av 7-56-3). Bagha (Av 6, 50, 3) is cockroach Vyajadhara (Av. 6, 50, 3) is hoined beettle Suchika is insect that stings like needle—mosquito biters of shoulder or of limb with needle stings are most poisonous (Av. 1, 91, 7).

medium sized thorny tree of tropical Asia and Australia The flowers have beautiful scent. When dried, their decoction is used to quench thirst in diabetes. Acidulous foods drinks and pickles are made out of its berries. The seeds yields on expression about 25 p c of a thick yellowish brown bitter oil which has a marked antiseptic cleansing and healing properties when applied to skin diseases in scables and ulcers Khadira (Acadia catechu) kernel wood and Simsapa (Dalbergia sisu) were used for making pins and axles of chariots (3 53 19) Plough shares and amulets were made of Khadara wood (Av 10 6 6) Acacias are found in Africa, Southern Asia and Australia catechu is a tree seldom more than 12 feet high, is indigenous in India and Burma. Catechu is made by evaporating a decoction of the inner red or brownish wood of the trunk In Diarrhea catechn is used as an astringent and tonic It is chewed with Pan (betel leaves) Kimsuka (Butea frondosa) makes strong wheels of bridal cars like that of Salmali-the silk cotton tree -Bombax malabricum (10 85 20), Flowery branches of these trees decorated the flag posts of the bridal chariots when travelling towards her husband s home B frondosa is 40 to 50 feet high tree with bright-scarlet flowers, yielding a fine yellow dye (tesu), growing in the mountainous districts of India common all over Bengal known as Palasa Stick lac is produced from exudations through punctures of the twigs made by an insect. A coarse fibre obtained from the bark is used as a substitute for oakum From wounds made in the bark a reddish astringent mice exudes which hardens into a red brittle resin (Kino) rich in tannic and gallic acids used in tanning oil (moodoogs oil) expressed from the seeds is used as a laxe tive and as an anthelmintic The charcoal of the wood posseses decolorizing properties and is used as a substitute for animal charcoal in the purification of alkaloids on account of its comparative freedom from saline matter. The (Stilmali) Bombax malabaricum is a large spiny tree with scentless scarlet flowers whose seeds are surrounded by silk cotton (Kapok) which is light and waterproof and used for making pillows cushons, and life The nectar of the flowers is laxative (mocharas) contains a large proportion of tannic and gallic acids, and is used as an aphrodisiac in menorrhagia and diarrhea.

Dhava (Grislea tomentosa - Woodfordia floribunda - Dhātaki) amulets were used as a charm like that of plaksha (Ficus infectora), Asvatta (Ficus religiosa), Khadira (Acacia catechu) and Parna (Butea frondosa = Palasa Av 5, 5, 5) It is a large shrub of the natural order Lythiace with bright red flowers which yield a dye and their decoction is used in dysentery and other forms of hemorphage Pilu (Salvadora Persica) fruits are the food of the pigeons and doves like Syamaka—the millets (Av. 20, 155, 13) It is a small tree or shrub grown in the and regions of Abyssinia, Palestine, Peisia, Beluchistan and Sind Its twigs are used as a tooth-brush to strengthen the gum with its astringents for which it is called the Toothbrush tree Its berries are regarded as an aphrodisiac, and are dried like currents. It is identified by some as the mustard-tree of the New Testament Varana (Ciatava ioligiosa Sans Varuna) is the divine foiest-tree (deva vanaspati), cines Yaksmā (Av 6, 85, 1) and its amulet was used for virility (Av. 10, 3, 1). This tree, belonging to the order Capparidere, is usually cultivated in the vicinity of temples in Central India, Bengal and Assam The bank and the root of this plant is negarded as useful in calculli, and is given in the form of decoction, which promotes appetite, increases the secretion of bile, act as a laxative and removes disorders of the unmany organs Vikankata (Flacourtia sapida) wood was used as a sacrificial fuel (Av 5, 8, 1) fruits are eaten, but not palatable. Its thorns are used to open the pustules of small-pox on the ninth of tenth day Vibhidaka (Terminalia bellerica) wood was used for making dice (7, 86, 6; 10, 34, 1) and as a sacrificial fuel (Ts 2, 1, 5) It is a large tree, growing throughout India, Ceylon and Burma The unripe fruit is purgative The fully lipe fruit (belleric myrobalan) is astringent and tonic, and is used in diarrhea. The oil expressed from the keinel is used as a hair-tonic, it is edible, but narcotic in large quantities Bilva (Aegle marmelos) wood was used as sacrificial posts (Ts 2, 1, 8), and Mahanagm (prostitute) regards its fruits and those of ulumbala (figs) as grand and delicious like the penis (Av 20, 136, 15) It is a large tree fruit is sweet, aromatic and laxative But the unripe fruit is astringent, digestive and stomachic. The unripe fruit either roasted, or dried and powdered, or decoction of it, is givenin

chronic dysentory and diarrhea. Its trifoliate leaves, regarded as the representation of Yons are offered to the phallic god—Siva and the tree is sacred to him. Sami (Prosopis spicigers) was used to engender fire through friction (Av 6 11 1) and for its long slender leaves it was regarded as beneficial for hair growth. It grows in Persia and Northern India. Its pods contain a mucliagmous pulp which is demulcent and pectoral. The bark and leaves are used for tanning Karshmarya (Gmelina arbores) is a large tree common in lower Himalayas and in Malabar (Ta. 5 2, 7) where its root which is a bitter tonic, stomachic and galactagogue is used in decoction in soute gout indigestion and anasarca and as a demulcent in gonorrhea Sans Gambhar Kakambira (Anamirta cocculus) is a climbing shrub with light grey bark resembling cork in structure and Cocculus indicus, the source of picrotoxin, highly narcone bitter crystallizable bitter principle—employed for checking night crystalitable bitter principle—employed for checking night sweets of phthisis and as an antidote in morphia. Hind.

Kakman Tear not up by the roots the Kakambira tree (6 49 17) Talasa (Av 6 15 3) is a large evergreen tree of the temperate Himalaya (Taxus beccata) Its leaves are Talispatra an emmenagogue, used as an expectorant in phthisis

Ajasringi—Arataki (Av 4 37 2, 6) is the abode of evil spirits. It is Odina woder (Tamil wudian) a large tree bear-

Aparingi—Arataks (Av 4 37 2, 6) is the abode of evil spirits. It is Odina woder (Tamil vudian) a large tree bearing fruits resembling gost like horns It yields an astringent gum which is given in asthma. Apamarga (Achyranthea aspera) removes all hereditary deseases (Av 4 17, 4, 18, 7). It grows in Sardinia, Egypt and India. It is diurctic It is used as a remedy in renal dropsy and as an antidote to the venom of socipion, and as a depurative astringent. Arundhati promotes the growth of hair (Av 4. 12. 5) and is a valuable healing plant. It is possibly Sans **Eranda—the castor—oil plant—Ricinus communis It is a native of Egypt now widely cultivated in most tropical and temperate regions. It is shrub or a small tree. The oil expressed from the seeds produces a laxative oil when it is rubbed on the abdomen of young children it has a laxative action. A drop of castor oil in the eye will often relieve the irritation caused by a particle of sand or by granular lids. When

by conjunctive acting as a protective and sedative. When rubbed on the skull, it has the reputation of promoting the growth of hair. Fomentations of the mammary glands with castor-oil plant leaves, wilted with hot water, are useful in promoting the secretion of milk The decoction of the leaves taken internally is also a galactagogue The oil is also used in cutaneous and rectal diseases and as an anthelmintic The decoction of the tal diseases and as an anthelmintic. The decoction of the root is used in flatulent colic, for nephritic pains and in asthma. The root bark is purgative. The plant is also cultivated for the production of silk, as some species of silk worms require its leaves as food. Avaka (Av 8, 7, 9, Ts, 4, 6 1) is an aquatic plant, known also as Sipāla (Vallisneria or Blyxa octandra (Av 6, 13, 3). From the firmanent he drove darkness as the gale blows Sipāla (now known as Saivāla) from the river (10, 68, 5). Ikshu—sugarcane. (Saccharum officinarum)—was used as a love-chaim (Av 1, 34, 5). This plant is honey (modbri) used as a love-chaim (Av. 1, 34, 5) This plant is honey (madhu) born Thy root is in honey. From honey thou art engendered Do thou make us possessed of honey (1) Let there be honey at the tip of my tongue, honeyed be the root of my tongue. Mayest thou be altogether within my grasp Mayest thou fulfill Mayest thou be altogether within my grasp Mayest thou fulfill my desires (2) Honeyed be my movements, my rendezvous Let me speak honeyed words May I be full of sweetness (3) Than honey may I be sweeter, than the honey plant more honeyed. Of me shalt thou be fond as of honyed branch, (4) About thee with the accompanying sugar-cane (ikshu) have I come in order to remove mutual hatred, so that thou mayest be one loving me, and not going away from me (Av 1, 34) Sugar-cane is believed to have been originally of Bengal, Indo-China and Malaya Archinelago Sanskrit Sarkara (canal Indo-China and Malaya Archipelago Sanskrit Sarkara (candied sugar) is Peisian shakar, Gk. sakkar, Lat. sacchaion, Ger Zucker, Russian sakharu, Arabic sukkar Munju (Saccharum munja Av 1, 2, 1) is a rush grass, used in filtering Soma drink (1, 168, 161, 8) Sara (Saccharum sara), the pen reed of Bengal, was used in the removal of any obstruction of urine (Av 1, 3, 1) and it is easily breakable (Av 8, 8, 4) Kusa (Poa cynosuroides) is a kind of grass, regarded sacred, which was used to be spread out, when dried, to make soft seats and beds in Vedic times (1, 3, 3) On festival days before the doors of churches hierochlæ holy grass—Savastana odorata—is strewn Poisonous snakes and creatures lurk amidst reeds (tara) darbha (Eleusine coracans Av 6 48 2; 19 82, 2) Kutara (bush grass), Sairya (Gerassium grass—Andropogon schoevanthus It is indigenous in the Punjab and N W Provinces. The oil disulled from the leaves, has an agreeable odor resembling that of otto of roses known as Busa or oil of ginger grass) and Virana (Khus khus—Andropogon muricatus It is a large grass growing in Northern and Western India whose long fibrous roots are netted to make aromatic-scented door secreens and mate) grasses (1, 191, 8) Durva (Oynodon dactylon) filamente spread out (X, 184, 6) Let Durva grasses bloom. Let there be lakes full of Pundaritans—lotuses (X, 142, 8) Here let the hly (Kiambu) tenders grass (pakadurva) and lessy herbs (vyaltaca) grow (X, 16 18) Punklara (blue waterlily Nymphes cyanes) has a pleasant scent (Av 12, 1 24, 11, 8 8) As the blue waterliles in the pond are surred by wind, so stirred let the ten month baby descend (5 78 7) Asvins are crowned with blue water life. Asyms are crowned with bine water lines (pushkaratraga a 184, 2; Av 8 22, 11) Kumada is the eduble water lify—Nymphaea edulis or esculenta (Av 4, 34 5) The Bisa (the root bulb of the Padma—Nelumbiam speciosum) Saluka (the root bulb of Nymphae edulis) sapaka the stem of water lify Beng sapla) and mulais (water nut — Trapa bispinosa) are Beng sapia) and mulcis (water nut — Trapa bispinosa) are edible (Av 4 34 5) Fundarska (X 149 8) is Fadma—(Nelum bium speciosum) It is the sacred Egyptam lotus producing the divine bean, Chimese water lily Kamala of the Hindus, emblem of Laksmi goddess of prosperity Ishika (Av 7 54, 4 12, 2 54) is the common reed Trichoon Nala is the Arundo Donax—a tall reedy grass with large dense flowering panicles, growing abundantly in watery margins. For me ten brownish oxen have come forward like Nala (reeds) standing purght in a lake (8, 1 33) Let black hair grow on thy head like Nata—reads (Av 6 137 3) As women split Nata—reads—with a stone for a cushion so do I split thy penis along thy testicles (mushia to cause impotence Av 6, 189 5) Garmut (TS 4, 4.4) is Vangneria spinosa Principarni (Av 2, 20) is the spotted leaved polypodiaceous edible fern Hemionitis esculenta used against abortion According to Susruta (1 377 17) if there is a tendency to abortion within 7 months of pregnancy

the paste of this fern mixed with milk may prove beneficial. Vamsa—the spiny bamboo—is a cylindrical jointed woody glabrous shining stalk which spreads off at its nodes numerous branches clothed with greyish-green, acuminate leaves, attaining the height of 60 feet and a diameter of 4 to 6 inches at the base 'The priests have raised thee high, O Satakratu, like a (tall) Vamsa-bamboo (1, 10, 1). It was utilized to make beams for the erection of dwellings (Av. 3, 12, 6, 9, 3, 4) Venu (Ts 5, 1, 1) is Bambusa spinosa with an erect spinose trunk, growing in sub-Himalayan regions 1 Hundred bamboos (venu), a hundred dogs, a hundred hides, well tanned, a hundred tufts of Balleaja (a kind of grass) and 400 reddish maies are mine (8, 55, 3, Vala 7) Vetasa (4, 58, 5; Av 10, 7, 41, 18, 8, 5) is the cane Calamus rotang, growing in sub-Himalayas and in Bengal. Libuja is a tendril climber "You are a weakling, Yama You have neither heart nor will. As a horse is easily bridled, as a tendril-climber (libuja) fastens round trees, so will another woman (easily) embrace you (10, 10, 10)" "As the tendul-climber completely embraces the tree, so do thou embrace me-that thou mayest love me and mayest not be going away from me (Av 6, 8, 1) Madhugha is liquorice—Glycyii hiza glabra, growing in the warmer regions of Europe and Central Asia root has a pleasant taste and with which the taste of nauseous medicines is disguised. It is a sweatish demulcent for coughs and soar-throat "Through the ointment of Madhugha (liquorice), Kustha (costus) and Nalada (nard), by the hands of Bhaga, I have a quick means of winning a woman's love (Av 6, 102, 3) Kustha is Haplotaxis auricula, a species found in Kashmir, the root (1adix costi odorati) was the costus of the ancients, and is used by the Chinese as an aphrodisiac and incense. In India from the earliest times it is used as a tonic and approdisiac. Narada is Nardastachys Jatamansi, indigenous in the higher altitudes of Nepal, Bhutan Its bitter aromatic root, known as naid or spikenard (Gk naidos indike of the ancients) formed one of the chief ingredidients of the nard ointment, and is used as a perfume for the hair, promoting its growth and lustre was formerly used largely as a medicine, its properties resembling those of official valerian A brown volatile oil obtained from the rhizome is employed in epilepsy, hysteria and convulsions.

Sana—the common flax (Linum usitssinum Gk. linon Lat linum) an annual plant being cultivated from remote antiquity for the fibres of the bark which are manufactured into linen. The seeds which contain oil, wax, resin extractive tanin, gum, muoilage, starch, albumin gluten and various salts, were used as food in ancient times, and are still eaten roasted by the Abyssinians. They are demulcent and emollient, and infused in boiling water are used in inflammatory affections of the nucous membranes. The nucleus of the seed contains an oil—linseed oil—which is extensively used in the arts and also in medicine. Soma is the principal (svettha) of the five plants—Darbha (Eleusine coracans). Bhanga (common flax). Yava (barley) and Saha—bean Phascelus mungo (Av II 6 15)

Some was the most important of the Vedic plants. Some was regarded both by the Iranians (Avestan Haoma) and the Aryas as the clixir of life Unfortunately its identity has been lost. Some regard it as Asolepias acida, Sarcostama viminalis or Vitis Vinifere with its fruits grapes—a native of viminals of visits visited with its trible grapes—a native of the Gaspian region. But these suppositions find no support from Vedic descriptive statements "The golden brownish twigs (of Soma harir ancut Avestan Azus V 9 16) is being pressed (into a paste between stones) and filtered through (a woolen cloth or grass mat 9 92. 1)" Two arms with their tan fingers are pressing between the stones the Soma twigs with pretty digitate leaves (somasya suhasta compound leaves radiating like fingers borne at the apex of the petiole) and the twigs with their digitate leaves (Sugabhastir = pretty handed) from mountains are pounds forth clear pleasant purce (5 43 4) Some is many leaved (bakutanta 10 42, 8) twigs with elender leaves (anoun tigman 8 61 72) 2) Press the Soma between the stones, and filter it (the pressed paste) through by mixing it with water Then what comes from the hollowstems (Vaksana) will be enriched with milk (8 1 17) Finest Soma grows on Mujavant (x, 34 1) In the midst of snowy peaks (himacata sirah) in the Navspravramsans (mount, where Manus fish in the flood legend was bound known in later Puranes as Naubaudhana Is it Nanga Parvat of Kashmir or Demayend of Iran) there the elmir (amrita) Kustha (Haplotaxis auricula, growing in Kashmir) grows. This Kustha is all-healing (panacea—visva-veshaja) This herb (sakam is found with Soma (or compared with Soma as an elixir: Sakam somena tishati) It removes all kinds of fevers (Takman = malaria) and other evils (Av 19. 39 8) The eleventh tablet of Gilgamesh Epic of the Hammurabi (Sans Samarabi) period (2038 B C) describes fully the flood story From this have been borrowed the Biblical Noa's arch (Gen v-1x), Avestan Yıma's vara (Vendidad Fargard II), fish and flood Myth of Manu (Sat Br. 1, 8, 1, 6) and the Hellenic Deucalion ship resting on mount Parnasseis in Phocis The soma paste pressed between stones, or by morter and pestle (ulukhala 1, 28, 3, 5-6), and mixed with water and milk (9, 86, 11, 9, 91, 2) is pushed through a woolen strainer and filtered through a grass mat Sour milk (dadhi X 179 3), barley water (Yava 1, 81 (92), 4, 9, 168-4) and honey 9, 17, 8, are added a gladdening and stimulating drink among the Sunahotras (Sunahotra Bharadvāja 2, 41, 14) Purus are fond of Soma It grows by Sushoma (Sohan?) Saryarnavan In Arjıkıya (Vıpāsa?) it is the best (8, 53 (64), 11) We know that Arsaces (Gk. Aisik) was a Sacae clan who lived in the desert east of the Caspian Sea and about 250 B C invaded Parthia and established the Arsacid over the ruins of the Greco-Bactiian Kingdom

It is most likely that the Soma plant is Cannabis sativa For it harmonizes with the Vedic descriptions Cannabis sativa is a native of Western and Central Asia, and now widely distributed and cultivated in temperate and tropical countries. It is found wild in the Himalayas and in Kashmir. It is an erect branching herb from 4 to 10 feet high with a hollow rough stem, small green or whitish axillary dictous flowers and petiolate digitate leaves, divided into from 5 to 9 lanceolate or linear acuminate serate leaflet's. The fruiting shoots and stalks with leaves constitute the siddhi (success) or bhang, which is made into a paste between stones or in a mortar, then mixed with milk and sugar, and sometimes made pungent by the addition of pepper, is drunk usually still by the orthodox Hindus on

New Years Day and other festive occasions. Its narcotic New Years Day and other festive occasions. Its narcotic quality is enhanced with the maturity of fruits. The unfertilized reamous flowering shoots constitute the gansa which is usually smoked by Rudra-Siva devotees But its Narcotic quality is reduced after the fertilization of the flowers takes place. The impure resun which is obtained by scrapping the tops of the plants growing on mountainous tracts 6000 to 8000 ft high is known as Charas a very power ful narcotic and which is smoked with tobacco by the habitues Cannabin sativa through its volatile alkaloid—Cannabinine—us primarily stimulant approximate and settlements. retentive power secondarily antispasmodic, analgestic and hypnotic In small doses the effects are exhibitations, intoxi cation and hallucination In intoxication exhaltation is the cation and haltromation in inforcation exhalation is the primary effect when imaginations run riots disturbing ideas of time, space and personality Persons unaccustomed to it are sometimes maniscally excited, even to violence and have redness and inflammation of the eyes. However in various uterine disorders it is used to relieve pains and bring about contraction of uterine muscular fibres. It is also useful in relieveing pain in dysmenorrhea and menorrhagia. The spasms of sathma are often relieved by it. It is also of value as a gastrice sedative in functional disorders of the stomach and bowels attended with pain acidity and flatulence. In large doses it provokes delirium and catalepsy Frequent uses of it bring about mental deterioration, a prolific cause of insanity

Soma Juice is exhilerating (9, 35 5) Cannabis sativa is stimulating and is an approdisac and a giver of delight (9 80 3) Like Soma (5, 43 4) it has digital leaves (su hasta). Its stem is hollow (vaksana 8 1, 17) Rudra lives in Mujacat (Apasthanba 8, 18 8 MBh X 17 26) Best Soma is also found in Mujacat (X, 34 1) The votaries of Rudra-Siva are addicted to Cannabis sativa From these identities it is safe to conclude that Soma is Cannabis sativa Of course moon (Soma) was regarded as the ambrossal food of the gods and manes (Ast. Br 7 11 Sat Br 1 6 4 5; Kaus Br 7 10; 4 4; Chand Up 5 10 1 Matrya P 1 26 50-60) The ancients regarded the moon beams essential for the growth of plants

And therefore Soma plant was the representatives of the celestial Soma (the moon) which they thought was full of ambrosia, for which it was called sudamsu, and which was the food of the gods and manes And as the gods and manes ate up and drunk the moon-ambrosia, it gradually waned, then gods and manes rest, and the moon waxes again

5.—AGRICULTURE

The Aryans were generally a pastoral people Their wealth consisted of their Cattle (Pasu = Lat Pecus, Pecus, Gk Possi, Goth faihu - Cattle From Pecuns, pecunia means wealth—Eng pecuniary) But they also knew the arts of agriculture and cultivated lands and added to their milk and meat diet agricultural products and fruits "Plowing (vrika= plow. Gk eulaka, arotron, Lat aratrum, O. Ir arather, Lith arklas, Ice. ardr, O Bulg ralo = forked stick hook plow) and sowing barley (Yava), o ye Asvins, thus milking out food for man, o ye experts, driving away the enemies with your trumpet, you have given great joy (uru jyoti) to the Arya (1, 117, 21) Yava (bailey) is Avestan yava, Gk zea, Lith javai. Six-rowed Barley (Hardeum hexastichon) is the most ancient of cultured food-plants. It has been found in the excavations of Mohenjo-dāro (3000 Dans). B C). It is mentioned in the Bible (Exod 9 31) The Greek BC). It is mentioned in the Bible (Exod 9 31) The Greek Demeter (Deva Mātā), the goddess of harvest and agriculture and of autumnal equinox (Viigo) was crowned with an ear of barley on her forehead (stachs Demetros) and a spike (Spica, 1, 2 magnitude star in Virgo—Alpha Virginis—and sixteenth in order of brightness in the heavens) of barley in her left hand The Roman prototype of Demeter—Ceres, the Hindu Sri, had two ears of barley on her head, and a basket full of bailey ears near her right foot (Wall painting from Pomper, Museo, Nazionale, Naples) Hindu Laksmi, also worshipped in the autumual equinoctial fullmoon (Virgo), the goddess of harvest and prosperty, has

New Years Day and other festive occasions Its narcotic quality is enhanced with the maturity of fruits. The un fertilized reamous flowering shoots constitute the gamaa which is usually smoked by Rudra-Siva devotees. But its Narcotic quality is reduced after the fertilization of the flowers takes place. The impure resm which is obtained by scrapping the tops of the plants growing on mountamoustracts 6000 to 8000 ft. high is known as Charas a very power full narcotic and which is smoked with tobacco by the habitues. Cannabis sativa through its volatile alkaloid—Cannabinine—is primarily stimulant approximation and presentive power. Secondarily antiapasmodic, analogatic and retentive power; secondarily antispasmodic, analgestic and hypnotic In small doses the effects are exhibitations, intoxinypnotic In small doses the effects are exhibitations, infoxication and hallucination. In intoxication exhibitation is the primary effect when imaginations run rots disturbing ideas of time space and personality. Persons unaccustomed to it are sometimes maniscally excited, even to violence and have recluess and inflammation of the eyes. However in various uterine disorders it is used to relieve pains and bring about contraction of uterine muscular fibres. It is also useful in relieve. ing pain in dysmenorrhea and menorrhagia. The spasms of asthma are often relieved by it. It is also of value as a gustric sedative in functional disorders of the stomach and bowels attended with pain acidity and flatulence. In large doses it provokes dehrium and catalepsy. Frequent uses of it bring about mental deterioration, a prolific cause of insanity.

Soma Juice is exhilerating (9 35 5) Cannabis sativa is simulating and is an aphrodisiae and a giver of delight (9 80 3) Like Soma (5 43 4) it has digital leaves (su hatta). Its stem is hollow (vaksana 8 1 17) Rudra lives in Mujavat (Apathanba 8, 18 8 MBh X 17 26) Best Soma is also found in Mujavat (X, 34 1). The votaries of Radra-Siva readdicted to Cannabis sativa. From these identifies, it is safe to conclude that Soma is Cannabis sativa of course moon (Soma) was regarded as the ambrosial food of the gods and manes (Att. Br 7 11 Sat. Br 1 6 4 5 Kaus Br 7 10 4 4; Chand Up 5 10 1 Matsya P 1 26 59-60) The ancients regarded the moon beams essential for the growth of plants

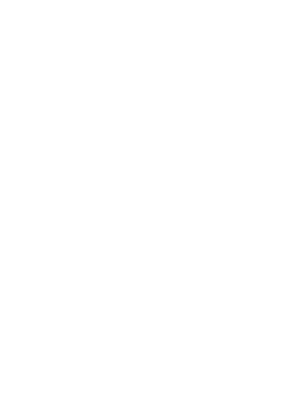
And therefore Soma plant was the representatives of the celestial Soma (the moon) which they thought was full of ambrosia, for which it was called sudamsu, and which was the food of the gods and manes And as the gods and manes ate up and drunk the moon-ambrosia, it gradually waned; then gods and manes rest, and the moon waves again

5.—AGRICULTURE

The Aryans were generally a pastoral people Their wealth consisted of their Cattle (Pasu = Lat Pecus, Pecuns, Gk Possi, Goth faihu - Cattle From Pecuns, pecunia means wealth—Eng. pecuniary) But they also knew the arts of agriculture and cultivated lands and added to their milk and meat diet agricultural products and fruits "Plowing (vrika= plow: Gk eulaka, arotron, Lat aratrum, O. Ir arather, Lith aiklas, Ice. ardr, O Bulg ralo=forked stick hook plow) and sowing barley (Yava), o ye Asvins, thus milking out food for man, o ye experts, driving away the enemies with your trumpet, you have given great joy (uru jyoti) to the Arya (1, 117, 21) Yava (bailey) is Avestan yava, Gk. zea, Lith javai Six-rowed Barley (Hardeum hexastichon) is the most ancient of cultured food-plants. It has been found in the excavations of Mohenjo-dāro (3000) B C). It is mentioned in the Bible (Exod 9 31) The Greek Demeter (Deva Mātā), the goddess of harvest and agriculture and of autumnal equinox (Viigo) was clowned with an ear of barley on her forehead (stachs Demetros) and a spike (Spica, 1, 2 magnitude star in Virgo—Alpha Virginis—and sixteenth in order of brightness in the heavens) of barley in her left hand The Roman prototype of Demetel—Ceres, the Hindu Sri, had two ears of barley on her head, and a basket full of barley ears near her right foot (Wall painting from Pomper, Museo, Nazionale, Naples) Hindu Laksmi, also worshipped in the autumual equinoctial fullmoon (Virgo), the goddess of harvest and prosperty, has

spikes of barley (in Bengal Rice—Dhāna) in her foot-steps like the Babylonian Ishtar With vigorous steers let our vigorous Men furrow the plough (langalam) vigorously Let the furrows be well separated with the active goad (ashtra) 4,57 4) Suna (plough) and Sira (ploughman) welcome this praise of yours Let the heavenly milk (rain) shower on this earth (4 57 5) Sita (furrow personified) be gracious into us. We salute thee so that thou makest us prosperous with abundant harvest (4,57 6) May Indra deepen the furrow (Sita) and may Pushan lead it (furrow) straight Let she milk for us (produce) excellent, excellent harvests (4 57 7) Let vigorously Pirjanya (rain god) give us milk and honey Suna Syra & Syra Suna, Sira, be active to give us prosperity (4, 57 8) The ploughshare raises food when one works with it (X, 11, 77) Fertile (uwara Gk. arours) cultivated land is a blessing (1 127 6) Fire was made to devour the brushwood, and barren (Khila) land was made fertile (X, 142, 3) Wells were dug for the irrigation of fields for the drink of men and cattle Fix the irrigation of fields for the drink of men and cattle. Fix the yokes (yuga a bar of wood by which two draft animals, especially oxen are joined at the necks for working together yuga-Gk Zugon Lith Yungas; Slav Yuk As 100) and fasten firmly the straps Furrows (yanau) are ready for the seeds (byam) Give us plenty for our praises The sickle (srinaya) is cutting the spikes of ripened grains (10 101 4) Arrange the buckets rightly and fasten to them the straps. Then we shall make the well (avata) pour forth its mexhaustible supply (10 101 6). From the well with its ready bucket suspended with strong straps I pull our water in an unending stream (10 101 6). "Refresh the horses (with water drinking and bathing) and win the spoils of victory. And hasten the charots for acquiring fortune. Pull from the well the suspended wooden buckets in the stone wheel (asma cakra Chakra Gk. Kyklos; O Slav Klob Slav Hweol) for druk of Chakra Gk. Kyklos; O Slav Klob Slav Hweol) for druk of the suspended wooden buckets in the stone wheel (asma cakra Chakra Ck. Kyklos, O Slav Kolo Slav Hweel) for drink of our heroes, clad in armour (10 101 7) Prepare the cow-stall Then give drink to your heroes with sewn (sivya) thick and wide costs of armour (10 107 8)—Divya Angirasa. Sewing was known. Raka (the full moon personified as a goddess of child birth) praised to give us wealth and lead us right. With never breaking needles (sucya) let her sew (swya)

spikes of barley (in Bengal Rice—Dhina) in her foot-steps like the Babylonian Ishtar With vigorous steers let our vigorous Men furrow the plough (langalam) vigorously Let the furrows be well-separated with the scive goad (antra) 4, 57 4) Suna (plough) and Sira (ploughman) welcome this praise of yours Let the heavenly milk (rain) shower on this earth (4 57 5) Sita (furrow personified) be gracious mto us We salute thee, so that thou makest us prosperous with abundant harvest (4. 57 6) May Indra deepen the furrow (sita) and may Pushan lead it (furrow) straight Let she milk for us (produce) excellent, excellent harvest (4, 57 7) Let vigorously Parjanya (rain god) give us milk and honey Suna Sira be active to give us prospertly (4, 57 8) The ploughshare raises food when one works with it (X 11 77) Fertile (uuvara Gk aroura) cultivated land is a blessing (1 127 6) Fire was made to devour the brushwood, and barren (Khila) land was made fertile (X, 142, 8) Wells were dug for (Khila) land was made fertile (X, 142, 8) Wells were dug for the irrigation of fields for the drink of men and cattle Fix (AMA) ind was made rethic (A. 122, 5) Wells were dug for the irrigation of fields for the drink of men and cattle. Fix the yokes (yuga a bar of wood by which two draft animals especially oxen are joined at the necks for working together yuga—Gk. Zugon. Lith Yungas; Slav Yuk As 10c) and fasten firmly the straps. Furrows (yanau) are ready for the seeds (byam). Give us plenty for our praises The sickle (srinaya) is cutting the spikes of ripened grains. (10 101, 4) Arrange the buckets rightly and fasten to them the straps. Then we shall make the well (avaia) pour forth its mexhaustible supply (10 101 5). From the well with its ready bucket suspended with strong straps I pull out water in an unending stream (10 101 6). "Refresh the horses (with water drinking and bathing) and win the spoils of victory. And hasten the chariots for acquiring fortune. Pull from the well the suspended wooden buckets in the stone wheel (asma cakra Chakra—Gk. Kyklos; O Slav Kolo Slav Hweol) for drink of our heroes, clad in armour (10 101 7). Prepare the cow-stall Then give drink to your heroes with sewn (sivya) thick and wide coats of armour (10 107 8)—Divya Angivasa. Sewing was known. Raka (the full moon personified as a goddess of child birth) praised to give us wealth and lead us right. With never breaking needles (sucya) let her sew (svya)



hay? He who comes riding on a horse (single horse without chariot) to a festival is not honoured. He who has herds of kine and horses finds Indra (Maghans) as his friend (X, 131 2)—Sulrit Kakshvata

Dhanya (Luth. duna = bresd) may be wheat, another name of vihi. For our children and progeny vouchafe us what we implore the seeds of wheat the blessing that sustains all life (5 53 13) —Syavana Atreya I am bringing cows milk; have brought beer (dhanya rasam); brought are our heroes our wives to this home (astaka Av 2 26 5) A wild species of wheat (Triticum argilopoids) is found in the hilly districts of Southestern Europe and Asia Minor from which the Emeorn (T monococcum) varieties of cultivated plants have been derived, the spriklets of which generally contain only a single grain It is chiefly cultivated in South-eastern Europe Asia Minor and Morocco The britle-eared T diooccoides in the mountainous region of Syria from which the Emmer group (T dicoccum) with spikelets containing two grains having narrow and pointed ends has been derived. T dicoccum has been found in Egyptian predynastic and early dynastic tombe of 8500 B C and at Mohenjo-daro (3000 B C) excevations in lake dwellings of Switzerland and Italy of stone age and China of 2700 B C It was exclusively cultivated in ancient Egypt and neolithic peoples of Central Europe At present it is now grown in Caucasus Iran India, Abyssinia Morocco and Spanish Basque for human food Bread wheat with its numerous sub races seems to have arisen by the hybridization and crossing of these two varieties. Godhuma and vrihi are mentioned (Av 12, 42; Ts 7 2 19; Vs. 18 22); Dhanys (6 18 4) Whose (Earth s) foods are orths (wheat) and yava (barley); and there are five races; whose spouse is Parjanya (rain) salutation to fattening (mcdhasa) rain (Av 12 1 42). Wheat and barley are life sustaining (Av 11 4,18). Wheat and barley are the dwine plants on the earth (Av 8 7 22) Wheat barley Masha (Phaseolus radiatus) Tela are the food (Av 6 140 2) Mudga (Phaseolus Mungo) Khalva (Phaseolus trilobus Av 5 23 8) Priyamgu (millet Panicum italicum -Sylaria italica ; Ts. 2, 2, 11) are mentioned (Vs 18, 12) with Ann

METALS 95

(millet = Panicum scrobicalatum Av 19, 50, 4), Nivara (Songhum vulgare: Hind Javar), Godhuma (wheat) and Musura (lentil - Ervum lens)"—Vs 18, 12

Ripe wild fruits were appreciated "As recent priests (Rishi) loudly chant, as for a tipe finited tree (Vilksha palva), a sickle in the harvest time, as a man eagerly longs for his wife, so I call for Indra who is invoked by many (4, 20, 5)"-Namadeva Give us wealth for our enjoyment which some other ones claim Shake Indra, as with hooks (ankiva) the tice with ripened fruits (Virksham pavkam phalam) and wealth for us (13, 45, 3)"— Visvamitra Are the branches with ripe fruits that can be shaken with hooks for their fruits belong to the apple species (Pyrus melus), a native of Western Asia or Prunus armenica (apricot), a native of the Caucasus region? Tryambakam we honour-who has a pleasant odor and is a nourisher Like urvarulam (walnut-Juglans regia, a native of Western Asia, grown in Kashmir and in the Himalayas which when ripe easily falls off from the stems, or musk-melon (Cucumis cantalupo, a native of Baluchistan), free me from bondage, and from death, take me to immortality (7 59, 12)—Vasistha We honour Aryaman, a friendly husband-finder Like urbarula I release you from homes (parental control), but not from husbands (Av 14, 1, 17) Badara (Zizyphus Jujuba) fruit is reddish (Vs 19, 22, 20, 2) It is a native of Cochin-China, but is cultivated throughout India for its fruits which are eaten with reliable aspecially when there are no market and the reliable aspecially when the reliable aspecially as relish, especially when they are ripe They are acid and astringent Jujuba sirup is pectoral Z glabra grows wild all over India Skt bhumi=Av Za, Pers Zami, Lith Zeme, Gk Kthon, Lat humus = land

6.—METALS

Gold (hiranya) was regarded as a valuable metal, usually for ornamental purposes "Bring us (O Indra) of cattle, horses and a mana of Hiranya—gold (8, 67 (78), 2)"—Kurusute Kanva Hiranya—Avestan Zaranya—Lat. aurum, Arm Zarik (leaf

gold) Mana-Lat mina Gk mna Heb mahesh Assyrian mina It was a Mycensean weight of 470 grams (about 16 They were known in Greece as Pelasgos in Italy as Etruscans and Itar in Syria as Pulastu, Dana Egyptian Danauns and in India as Danavas Mieccha, Pulastas Bhrigus Ugant (Ras Sarma of Northern Syria) was by an earthquake about the middle of 14th century B C which is proved not only by archeological indications but also by the reports of the king of Tyre to Amenophis IV found out at Tel el Amarna The city was still dominated by Mycenaeans A whole set of bronze weights from quarter of a shekel (2 5 grams to a mina (470 gaammes=16 or) Mina was in the shape of a conchant bull without any humps as a masterpiece of animal sculpture. Another weight is a head of a Mycenman with prominent nose and broad face (Caspian type) A silver pen dant of 3 priests one of whom has a bull head mask, recoiling certain rock-carvings in Anatolia A fine ceremonial axe in silver plated bronze with a honess head on the socket some bronze daggers boring tools a hole a double hook for leading animals to sacrifice—(I L N Feb 20 1937), Gold mines (hiranya vartini 8 26 18 6 61, 17) nugget-gold (hiranya stupa 10 149 7) "Ten horses, ten chests ten garments and dinners (platters with food) and ten nuggets of gold (haranya panda) I have received from Divodasa (6 47 28) - Garga Bharadvaja Gold earrings (heranya Karna 8 61 (72) 12) and ear-drops (Karna sovana 8 67 (78) 4) Neska-sobhana (5 19 8) is necklace Neska also meant necklace (1 126 2 2 88 10; 8 47 15) Haranya sruy 18 gold-chain (Av 10 6 4) Rulma was worn in Vaksha-breast (1, 64, 4) It was a kind of amulet suspended on the breast from neck like modern locket or defensive armour At Moheniodare of about 2700 B C a heard of jewells has been found in a silver vase wrapped in a piece of cotton cloth, containing necklaces of gold and ladeite beads earrings finger rings bracelets amulets, and beads of silver copper cornelian and many precious stones. In a bronze slender figure of a nude danseuse of Mediterranean type, behind a heavy coil of hair on her shoulder there are two necklaces in her right arm there is an arm band and a bracelet and a large number of bracelets on her left arm. In a nude pottery figurine, possibly a mother

METALS 97

goddess, there is a curious fan-shaped head-dress with panniers on either side (like Philistines), kept in shape by a ribbon on the fore head, heavy necklaces of beads, biacelets and a girdle of three bands tied by a metalic clasp round the waist.

At Mesopotamian Brak steatite and alabaster amulets and idols with neck and a pair of round eyes have been found of 3000 B C A copper pin with an ibex head of 2700 B C Thirteen gold ear-rings, one gold finger ring and two silver bangles of 2500 B C An altar of 2200 B C has been found with a golden speaking tube in the centre in a 100m behind to make oracular utterances—a device similar to one found at Corinth A litual vessel in the shape of a clay trough adorned with relief figures of scorpions (Scorpio) and snake (Draco) bronze axe and a sacred fine-altar of 2000 B C (I L N The tombs of Khephereu's (Khafra) daughters and sons of the Fourth Dynasty (2700-2680 B C) have been found near the second Pyramid built by Khepheren The skeleton of the princess was found extended on its back with head to the north With it were two necklaces, one composed of 3 gold threads and some steatite beads, and the other of gold beads with semi-circular gold-clasps, a gold fillet with gold ribbons, 4 gold bracelets, gold anklets, and a copper belt platted with gold layer round the waist There is a head-rest of translucent alabaster veined with vellow lines A bald-headed limestone portrait head of Palae-Alpine type with upturned nose is of excellent workmanship (I L N April 11-1936)

Gold was perhaps the first metal used by man, especially for ornamental purposes Gold nuggets and gold dusts are attractive in appearance by their glittering shines. These could be easily obtained from alluvial deposits without real mining. Gold ornaments of neolithic age have been found. And in later periods it is common. The earliest gold ornament has been found in Egypt, containing gold nuggets with specks of platinum, but below 17 carats. By about 2500 B C true mining was known in Egypt. Auriferous quarts veins were followed by shafts and the matterial crushed with stone hammers for washing. In an inscription of about 1800 B C at Abydoo, Amenempet II says: "I forced the Nubian chiefs to wash gold." The earliest known map in the world is a plan of gold mine of the 19th Egyptian.

dynasty (1350-1205 B C) probably near Hammamat whence came the black basalt (usually a quartzite) used for statuary Job (22 24) mentions the gold of Ophir among the stones of the brooks The Biblical Ophir may be Yemen or the Arabian coast of the Persian Gulf But some Indologists believe that Ophir may be Sopara (Supara - Surparika) from which part as well as from Bhrigukaccha (Broach) ships used to sail to Baberu (Babylon) according to Baberu Jataka Babylon in the Assyrian inscriptions was called Babili the gate of God Its Iranian name was Babiru It may be Rigvedic (4 19 9) Bamri Avestan Baurs Bapillu of Behistan inscription, and the Baby lonian may be Papru (1 51 5) the enemy of Indra Western India was settled by Abhiras (Avars - a Caspian Saka people) for A which it was known as Abhiria according to Ptolemy In Ba bern Jataka (389) it as mentioned that peacooks were exported to Babylon Maritime intercourse is also proved that in the ruins of Ur (Mugheir) not only cuneiform inscription mentions vegetable cloth Heb sadın (Issiah 8 28) Gk sinden Ar Satin it must have directly come through the sea to Balylonia and Syria as otherwise through overland route sibilant a would have been converted into h At Moheniodaro cotton cloth has been found as a wrapper of a silver vase. Sanskrita name of Cotton is Karpasa - Gk Karpasos (linen) Lat Carbasus (linen dress) Heb Karpas But about 1000 B C (Kings was not composed before fifth Century B C) Solomon imported from Ophir 420 talents (a Babylonian weight equal to 50 menas Gk talanton, Lat talentum, Sans tula = balance compare Lat tollo Gk telos-support A talent 18 worth of about Rs 5000 2000) of gold (1 Kings 28) almug tree (1 King 10-11 II Chr 2 8 9 101 Hebrew word is translated as sandal wood. Bed sandal wood (Pterocarpus santalinas) grows in south Indian plateaus It contains santalin a red crystaline resmoid matter Red sandalwood paste is used as a cooling ointment on the forehead in Hindu religious ceremonies and in headache. But it has not the fragrance of Santalun album (sandal wood tree) which grows in Mysore and whose yellowish brown heart wood after it has attained maturity is aromatic and yields by dis tillation the sweet amelling pale yellow volatile oil which is used in performenes) Ivory (shenh-abbim 1 Kings 10 22 Skt 1bha is

METALS 99

ivory, which was called in ancient Egypt as ebu, Heb. abbin, Lat. ebui, Gk elephas, Eng ivory), ape (Kof 1 Kings 10, 22, 11 Chron 921, Egypt Kafu Skt Kapi which has become in Gk kepos. monkey Cebus, belonging to the genus Cebinae has been named) and peacocks (tulkiyim Chron 9 21, Job 39, 13 peacock (Pavo Cristatus) is a native of India and Cevlon Its most famous ornament is the long tail coverts, the feathers of the train bear the peacock eyes at their distal ends The crest on the head and the colour of the neck and breast are of also great beauty The display of the male consists in the spreading of the train, accompanied at intervals by a shiveling of lattling of the guills The bird was also formerly esteemed for the table. but usually for its very pretty spreading plumages The Tamil and Malayalan name of the peacock is toker from which the Heb tuki has been derived) It seems therefore that Ophii from which Solomon imported gold, ivory, sandalwood, apes and peacocks was a South Indian port And there was Uvari, meaning sea-port. now a small fishing village to the south of Tuticoin. but in ancient days an important port near Korkai, the capital and for long the emporium of South India trade of the Pandian Dynasty till ninth century B C when Madura was built

Ayas (1,88, 5) may mean any metal It is possibly equivalent to German erz (derived from Goth ars) which means both ore (mineralized stone) and bronze But ersen, meaning iron, is also derived from High German rsen, and Gothic ersern, and thence iron Latin Aes means both bronze and copper Ayas is Avestan ayant. The Homeric expression ros kalkeres means either iron or ore-produced spear. Iron-pillars (ayah sthuna) decorated with gold (5, 62, 7) is found. Wild boars, have the tusks of ayas (iron or copper 1, 88, 5). Arrows are tipped with ayas (6, 75, 15). Ayas and Kālayas (black ayas) are both synonymous (Amar 2, 266) with lauha=reddish copper; later rron). Syāma ayas (black metal) is iron, lohita ayas (reddish metal) is copper and trapu is tin (Av. 11, 3, 7-8), Vs. 18, 13). Tin has been found at Mohenjo-daro which was used for making bronze. A bronze danseuse has been found at Mohenjo-daro, and a bronze vessel and an axe at Chanhu-daro.

Chanhu-daro was threatened by the Indus as Harappa Both the civilizations belonged to the same age about 2500 B. C

Indus threatened to wash away the houses of Chanhu-daro altogether The Indus actually cut through the town dividing it into 8 parts represented now by three mounds. The drainage system was excellent surprisingly modern At the junction of 4 drains there were outfalls. The drain pipes were of porous pottery with spigots for fitting into each other. Agate and come lian beads have been found in large numbers in all stages of their development. They were bored by drills made of black ish cherts in appearance resembling the graphite of lead pen cils Their holes were so tiny that they could only be threaded Many children's toys were found. Pottery animals like elephants ibexes toy rams on wheels carts drawn by oxen female figures—possibly mother goddesses rattlers and whistles There was a pottery animal with moveable head. There was a bronse Toy Cart with solid wheels and the driver seated in the front. A large number of seal amulets, mostly in square forms engraved with figures of one horned urus ox, the bison the elephants and the tiger A very spirited bull without any hump on it shoulder is trampling a man under its feet. A large number of Kohl pars containing paint possibly used for pain ting eye lids Copper dishes and copper knives with curved tips are among the finds Copper hair pin with coiled head, a type familiar in Sumer Caucasus and Central Europe Another copper hair pin of a type hitherto unknown in India but well known in Ansu, the Cyclades and Italy A copper rasor of horseshoe type with edges at both ends. A copper rajor of double axe type with an edge at both sides and a handle for holding it A bronze spear head with holes for the attachment of a shaft and a wooden midrib A small bronze cosmetic jar contaming Kohl A bronze shovel of modern type probably used for shovelling grain A lip-stock of red othre Children's feeding pottery cups A child's feeding cup made from a conch-shell There is a pottery head rest of Egyptian design. An ivory comb with incised decoration of concentric circles on each side A pottery ink-pot with rib-like ornaments drawn on each of the four angles (Mackay in L L N Nov 21 1936)

Mari was destroyed by Amorite Hammurabi (Kshamarabi) in the 32nd year of his reign (2000 B C) by overthrowing its king Zimri lim. A horned (2 cow's horne) goddess, with quadrangular face of Caspian type, wearing a lead necklace and flounced skirt in a standing posture is pouring water or milk from a vase in hands (Aquarius). In the royal kitchen various moulds with circular loops and animal designs of stags for moulding cheese have been found. Another image of Ishtar with the head-diess of 4 horns locks of hair behind a flounced skirt and beautiful face of Alpine type has been formed. Below the ground, of about \$000 B C level, a nude Ishtai, wearing a turban and head necklace, with well developed breasts and hips, has been found on the foundation nails of copper and bones of sacrificed animals (I. L. N. Oct 31—1986). At North Sakara a tomb of a nobleman of early Egyptian Second Dynasty (about 3100 B C) has been upgarthed with a samplete week level out for the saving of the unearthed with a complete meal laid out for the service of the dead man with numerous flint knives and scrappers, Copper Vessels, including a ewai and a basin, copper knives and small chisels (I L N Jan 14—1939) At Megiddo in Symanbout 3500 B C people used to live in rock cut dwellings. And a well-wrought bronze sword of 3000 B. C has been found (I L N Nov. 19-1938) At Khafage of about 3500 B C a Sumerian temple has been unearthed with many statues of Palae-Alpine type. A pan of wrestlers with a free catch-as-can type with large vessels on their heads in copper (I L N Dec 10—1938). And in the shrine a stone head with bearded face of Alpine type, a copper bull statuette with beard, a bearded human-faced

winged bull, have been found (I L N Dec 17—1938)

Copper was in use among the Sumerians as early as 3500 B C and was common in 3000 B C Sumerian copper of 000 B C contains nickel and arsenic which are found in the copper ores of Azerbaijan, Armenia and Anatolia In the south of Caucasus, there was an important copper-smelting centre long before this time. A copper deposit with early working has been discovered at Jabal al Madan, possibly the same as the mountain of Magan, mentioned in Sumerian tablets of 2700 B C and the copper found at U1 and Kish is shown by chemical analysis to be identical with the ores of Madan. In predynastic period of Egypt, the pupils, edges of the eye-lid and eye-brows used to be painted with green malachite (basic carbonate of copper) paste. Possibly a fragment of malachite or cosmetic paste prepared.

from it fell accidentally into a charcoal fire, and the resultant copper was made by the Mediterraneans into a very useful weapon of offence. Green Osiris is malachite His son Red Horus is the reddish copper Hathor represented as the star spangled sky in the form of a cow was the goddess of the malaspangled sky in the form of a cow was the goddess of the mainonte mines of Meskat (Mislachite city) in Egypt and in Sinai
Horus was worshipped by these Medinterraneans as Mesniu, the
copper-smith, Horus of Behutet was the lord of the forge city—
Edifu. Though in the First Dynasty copper was used it became
more common in the Second Dynasty Sinai was the main more common in the Second Dynasty Sinai was the main source of supply of copper to the Egyptians though many mines in Egypt were worked. The copper ores of Cyprus were worked by the Phoenicians and were supplying Egypt during the Eighteenth Dynasty which began in 1887 B O In Europe copper mines of the bronze age were working in South Russia Greece Germany France England Ireland, Spain, Portugal, especially in Tirol where the mines of Mitterberg were worked from about 1600 B C continuously with the Hallstatt period of Iron Age about 800 B C At Mohenjodaro numerous copper tools weapons jars dishes and even a barked fish hook containing nickel have been found. Tim mines were worked in Altai Ranges with bronze tools which have been found there nossibly by the with bronze tools which have been found there possibly by the Chudes (Sadras) whose antiquities abound in the region. At Megiddo a bronze sword of 3000 B C has been found (I L N Nov —1938) A metal bowl from the tomb containing 8 5 pc tim. The Phoenicians used to get tim in the Taurus range But the supply being madequate they used to get it in the Cauca sus sending their ships through the Bosporus and the Black. Sea They used to get tin from Spain from 1900 B C and got tin of Britany and Cornwall as early as 1500 B C For trading purposes, particularly for the supply of tim, they founded Gades (Cadux) in Tartess (South Spain about 1100 B C They founded Malta (Melita) Marseilles settled in Sicily Crete Sardinia Oorsica and Channel islands which were called Cassiterides (Tm Islands) in Greece The tin mines of Bohemia and Saxony m the Valley of Elbe were also worked from early times. The Cassitente (Gk Kassteros Skt Kastira) occurs mostly near the punction of the granite and slates on either side of Erzgeburge in much the same way as in Cornwall

METALS 108

Silver (Rajata) is seldom mentioned in Rigveda But rajata, meaning white is found only once "A reddish brown and a white (rajata) steed we received from Ukyhanya (Ux11, Northwest of the Persia Gulf above Susa) and Haryana (Hyrcania, south of the Caspian Sea), and one harnessed chariot from Sushāman (Susiana) 8, 25, 221—Visvamanas Varjasva However in 10, 105, 7 wonderful (adbhuta) like rajas (silver) is found In Atharvaveda in one place (5 28, 1), by rajata silver is indicated, but not in (13, 4, 51) where it simply means bright with an amulet of three metals "nine lives are added in order to prolong life for a hundred autumns In the gold (harita) 3 (lives), in silver (rajata) 3, and in iron (ayas, three (lives), infused by magic (Av 5, 28, 1) Silver is called white gold (rajatam hiranyam Ts 1, 5, 1) Silver beads and a vase have been found at Mohenjodaro Silver ornaments have also been found at Monenjodaro Silver ornaments have also been found at Harappa Rajata (silver) = Avestan erezata, Gk arguros, Latin argentum, Celtic argat, Toch arkyant; Arm. alcat, Fr algent $\sqrt{\text{arg}}$ = to shine Skt ark-a = sun-shine; Gk elec-tron = shining metal, amber At Susa silver is mentioned on a tablet of about 3500 BC In Egypt in early times it was known as white gold and was regarded more valuable than gold But in the 18th Dynasty it became common and of much reduced value Khattis worked the silver mines of Asia Minor and it was a very common metal with them The galena (lead ore) of Karahissar yields as much as 600 oz per ton, and it was dilligently worked by the Khattis and was their main source of supply In Abraham's time (about 2200 B C) commerce was carried on with silver (Heb Reseph) by weight (Gen 23, 15) In the age of Solomon (1000 B C) depicted in the Chronicles written about second century A D.) it was abundant and used in the tabernacle (Ex 26, 19), possibly due to its ample production. It was coined by Maccabees (175, 164 B C) In a temple dedicated to Mont, god of war, by Ametephet 11 the third Pharaoh of the 12th dynasty when he was raised by his father Senuseret 1 (1960 B C), a silver lion in a crouching position with some silver vases, cups, rings chains and lapis lazuli necklace and amulets in 4 bronze chests have been found (I L N 18, 1936) Sisa (lead) is not found in Rigveda But in Atharvaveda (12, 2, 1, 19, 20, 53) it is used as an amulet It might have been used as an instrument of offence against enemies in the shape of molten lead Siza (lead) is blessed by Varuna Fire (Agni) beautifies lead Indra has given us the lead to overpower the enemies With this we can conquer all the tribes of the brunets (Pisācas Av 1 13 2) It is also used as balance-weight in shuttles (Vs. 19 80).

Lead has been found at Mohenjo-daro and Harappa. The palace of Naram Ein of Agad, grandson of Sargon (Caspian) he built in 2700 B C at Brak has been found with copper eagle copper razor copper saw 4 copper tools, a cow in alabaster couchant rams in stone, a couchant lion a squatting monkey (I L N Oct 15-1938) A lead amulet in the shape of a bearded bull gold filigree pendants gold silver agate and cornelian beads coiled stiver earrings silver beads with spiral ands (like those of Troy 7) a clay vase decorated with snakes (Draco) and scorpions (Scorpio I L N Oct 22—19 8) At Rhas Sharma of 1500 B C in a Mitannian stable bronze implements, engraved copper sheets a tempered iron battle axe with bronze socket a fine lead grill for drainage into a sewer have been found (LL N Jan 6 1940) Lead is accompanied by silver zinc and iron. At the outcrop of the upper contact the galena, blende and pyrates give place to cerusate calamine and haematite. The red colour due to haematite makes the outcrop conspicuous. And it is looked for iron, then silver and finally for lead The Khattis worked the galena mines in Asia Minor principally for silver but got lead as a byproduct The galema mines of Laurium (in South Attica) were at first worked by the Mycenseans Then the Ionians began to work it about 600 B.C. A galena casting of 100 kilograms contain about 19 grammes of silver The Athenian coins often referred to as Lanreum owls (they had a head of Athena on the obverse and an owl on the reverse) contained 98 5 p c, of silver And Athenians became so expert smelters that not more than 10 p c of the silver remained in litharge, and which made Athens very rich. The Greek word for lead oxide is Asthargeros which means silver stone

Sanskrit Loha (110n) - Latin randus Old Slavio ruds Old Nordio rands; Old Ger rands (orust of the wound), Arm aror At Harappa of about 2500 B O some lumps of loellingite, a

native arsenide of non, closely related to arseno-pyrite, have been found in a large copper jar, covered with an inverted dish with weapons and implements of copper—2 double axes (Mycenacan—Khatti), I arrowhead, I saw, I made head, 21 celts, 2 lance heads, 16 spear heads, 7 daggers, 2 choppers, 13 chisels, stylus and the beam of a weighing scale. On one of the seals are depicted seven men of definite brachycephalic type with prominent nose and fleshy lips (Khattis = Kelts = mixed Alpines) wearing kilts and helmets marching in procession. Among the finery jars excavated at Harappa, the most interesting is a group of more than a hundred jars which were covered with inverted bowls, flasks, handled lids and potsheids. These jars are deconated with chevrons, wavy lines, and representations of deer, goats, birds, peacocks and human figures. One of the jars is decorated with three flying peacocks, alternating with stars and a human figure is horizontally on the body of each peacock. It seems that these brachycephals became known as Khatti (now called Khatri) horde—Kshatriya Purus. At Ur a specimen of iron-ore has been found in a stratum of 3000 B C containing 10.9 p.c. iron. The Great Pyramid built by Alpine Khufu 109 p c iron The Great Pylamid built by Alpine Khufu of the Fourth Dynasty about 2810 B C contains a piece of iron without nickel, therefore unlikely of meteoric origin. But about 2000 B C there are indications there was mon-smelting in Caucasus regions At Rhas Sharma an ancient tomb has been found with funerary vases filled with ashes, bronze implements and two bronze cups (1500 B C) mentioned in a citizens will written in cunerform on copper (I L N Dec 30-1949) Contiguous to a great hall, there is a royal stable for horses with stone mangers along the wall and a trough fixed in the pavement to water the royal horses during exercise. A bronze horse bit which would fit a small-sized horse or pony, a Mitannian battle-axe having a bronze socket with molded ornaments representing wild boar and lion heads encrusted with gold wire representing the skins of those animals. from the gaping mouths of the two lions projects the blade of the axe which on analysis has shown to be composed of non which has been tempered and hardened, thus revealing the process of steel-making. The socket has been shrunk to the base of the blade, gripping it firmly, and so rendering unnecessary the use of rivets. A stone drainage Caucasus regions At Rhas Sharma an ancient tomb has been

system ran under the floors of the rooms and through the walls of building in the palace designed to carry away water used in the bath rooms to the main sewer which was covered with flat stones And there is a fine lead grill for drainage. There is a copper statuette of god of mesocephalic head clad in a close-fitting mantle trimmed with fur the eyes being composed of white stone and gold The arms which were fixed by rivets are missing The consort of the god-a copper statuette-was formerly plated with gold, representing a seafed goddess wearing a turban and clothed in a long robe exposing the full round breasts, the fur trimming being elegantly draped over naked shoulders. There is also a Hysko bronze dagger of 18th century BC with handle formerly decorated with inlay (I. L. N. Jan. 6—1940) The Mitanni (Mitra+anika=allied army Rigyedic Mitajnu 8 59 8 : 6 32 3 7 95 4) knew well how to train horses and train them to use them in battle with the war chariots. On the Euphrates they formed the earliest horsebreeding aristocracy and thus made Mitanni a dangerously military state which dominated the Euphrates plains and Syria in 1600 B C For when a squadron of Mitanni chariots came thundering accross the plain the Babylonian and Syrian infan tries were scattered like autumn leaves. Perhaps the Mitannis reached Euphrates region through the Caucasus as in Mitanni Chariot found in Egypt (now in Florence Museum) there are birch fibres which are only found in the Caucasus The Khattis manufactured iron daggers double axes spearheads in the 1500 B C out of the iron mines of Cappodocia. But it was a slow process. For when Rameses II of Egypt in 1280 B C asked his father in law and ally the Khatti ruler Khattusel II for some ston daggers Khattusel could send only one promising however to send more when they were made In Genesis the permatesthe iron workers-are originally associated with the Hitittes , (Khatti) Perrizzites were an ancient Canaanite tribe Canaanites (Cimmerians = Skt Kinnara) are mentioned by the side of Hittites Amorites and Parentes (Exod 3 8; Daut 7 1) In the Table of Nations (Gen 106) Canaan is not included among the Semites, but is a son of Ham (Gen 9 18) In Amarna times there are Indo-Aryan names among the rulers of Canaan Palestine about 1600 B C was ruled by Mitanni and Harry

METALS 107

(Arya) In the Khattı cuneiform texts from Boghaskeui, Canaan (Kinahhe, the same form in Amarna texts) is mentioned in a record concerning Mitanni and several non-Semitic North Syrian kingdoms (Kinza, Danip, Ugaiit, Katva) Other centres of early non-smelting were in Kuidistan, Chalybes, near the head of the Euphrates, whence comes the geologic Greek name Chalybite or siderite for ferrous carbonate, and around the south-eastern shore of the Black Sea Valem in Western Hungary has been an early iron-mining and smelting centre between 1100-800 B C of Hallstate period. In the La Tene period non was made on the north-west of Lake Neuchatel and in Jura. In Jutland lumps of non scoriae and a blumery have been found under an Iron. Age tumuli. The ore was superficial limonite pan. In Italy iron appeared at the close of the 12th century B C. The ores of Tuscany and later of Elba attracted first the Villanovans and then the Etruscans (700-264 B C). The Achaeans overran Greece in 15th century B C. riding on swift horses and armed with piercing iron spears.

Gold found in Mohenjodaro and Harappa is associated with silver, khown as electron, common in Egypt Though election is found in Kollar Gold Fields and Anantapui mines, it was not known in old days. In third and second millenneum BC gold mining was not known, gold washing from auriferous river beds was only prevalent. Though Hutti mines of Deccan show working from early days, it does not antedate pie-Christian era, and it is not mixed with silver. Though gold is found in sand-washings of Dharawar streams, it is not electron, and is not known in ancient days. But Egypt was famous for producing gold and electron. Tell-el Amarna letters show that Khattis of Syria and Kassites of Babylonia often requested presents of gold, and what they got was adulterated with copper. Other ancient centers of gold production were Central Asian and Siberian rivers, Western and Middle Khen Lun Mts. Though Herodotus mentions that the Sindhu Satraphy used to contribute to the treasury of Darius. 130 talents of gold, it was based on idle rumors, and had no basis of fact. Ancient Sindhu and Punjab used to import gold and silver. Though silver is found in Kulu valleys, Rewa, Monghyr and in Manbhum, they are of poor quality and of recent development and is not associated.

with lead as found in Mohenjodaro Iran, Ghosbad valley of Afghanistan Armenia, Anatolia are rich in silver bearing lead mines Lead with copper is found in Ajmere; copper ores associated with lead 1 58 3 28 p c Heaps of copper slags of ancient working have been found at Shaha Bellid and Rohat in Baluchistan Shaha Mukshad Range in Afghanisthan and Anarok in Iran But they do not show nickel The Mohenjo-daro and Sumerlan copper show almost identical quantity of nickel (I p c) lead (0 80) and sulphur (2 p c) Though Tin (cassiterite) exists in Bombey Presidency and Hazaribag District Tin was not worked and for making bronze it was perhaps Tin was not worked and for making pronze it was perhaps imported from Astrabad and Kara Dagh in Iran Though green Microcrine Felspar exists in Dodhabatta in Nilgiris, it has been worked from prehistoric times in Gebel Migit in the eastern desert of Egypt where it became very fashionable during 12th Dynasty Though Amethyst exists in Deccan it was the favourite of the ancient Egyptians as steatite Turquise though found in Nishapur and Kharsam in Iran, it was also very popular with the Egyptians Lapis Lazuli is found only in Badakshan (N Afghanistan) and in Demayond Mts Jadotte is baghanish (N. Aghanisad and in Beniavend in Species is only found in Pamirs Turkestan or Tibet Bitumen for bonding bricks and for waterproofing bath basins is found in Isakul of the Indus, Sinni in Baluchistan and particularly in Hit on the Euphrates Loellingite arsenide of iron is found in the Punjab Kashmir Afghanistan, Iran and Asia Minor Silajit as an approdisiac and for hepatic complaints is an exudate from the Himalayas Meteorite stone as phalic symbols are known in Greece Syria, Kabba of Mecca But naturalistic Linga and Yoni symbols However figurines of Mother Goddesses head and body ending in a flat base are strikingly similar to those of Minoan and Mycentean origin

7.—THE COUNTRY

"Whose (Ka's) glories are the snow-covered mountains (himavanto), the ocean (samudia) with the Rasā (liveis) These regions are his (Ka's) arms (X, 121, 4)"—Hiranyagarbha Prajapatya Hima is snow and cold Rasā (1, 112, 12) is the great Mother Rasa (Mata Mahi Rasa 5, 41, 15) The Greeks called the Volga as Rhos, Rha or Oarus It is still the Mother Volga of the Slavs Rhesus was a river god in Bithynia in N W Asia Minoi Rhea is the Great Mother, and Mother of the gods of the Micenaeans It is the Avestan Ranha Herodotus identifies Ranha with Aras But the Itanian people lived on the shores of Ranha which indicates it is Taxartes (Sn Dana) Ka is only once mentioned in the Rigveda (X 121) And in later myths, it is an unimportant deity, and appears to be a strange foreign import. But among the ancient Egyptians, it was a dominant god—the body's immaterial double that hovered over the dead bodies in their funeral chambers. From the body's immaterial double (Ka), the conception of the immortality of soul has developed Mujavant is the mountain where the best Soma plant grows (10, 34, 1) Mujavant is the abode of Rudia "This is your travelling fare, O Rudia, with it go to your place—Mujavatah (Vs 3, 61) Soma plant has been identified with Cannabis sativa And Rudra votaties are addicted to its intoxicating piepaiations And Cannabis sativa is indigenous in Central Asia "I send away Takman (Malanal Fever) with salutation Let it go to Sakambhā (a Saka tribe), the dung usei (Cential Asia being and the Saka tribes and Tartars used to buin cattle dired dung and bones as fuel due to scarcity of faggot), and Mahāviishas (the name of a Saka tribe who used to have bull as their deity as Danaus - Dānavas) Its (Takman's home is the Mujavants, its home is among the Mahahrishas Since thy birth, O Takman, thou ait at home among the Balhikas (Balkh peoples Av 5, 22, 4-5) Takman, go to the Mujavants, among the Balhikas Further off, seek the wanton Sudra (Chudes who dwelt in Central Asia and Altai Mounts) woman O Fever, shake (malarial paioxysm) her up a bit (Av.

5 22 7) Muyuan and Sumakan (Thian Shan) are covered with snow They are the abodes of Girisa. At their foot hills there is a lake Sailoda (Isaskkul), Sarisu (Ohn) originating flows between Vaksu (Ita) and Sitä (Syr Danya Matsya P Ch 120 19 20) Mujavant therefore seems likely to be Mujun kum between Syr Daris and Chu rivers. Navaprabhamsana where grows the all healing Costus (Av 19 39 8) is Naubandhana of later myths (Sat Br 1, 8 1 6) where Manus boat of flood myth was tied The flood myths of nations have been borrowed from the eleventh tablet of Babylonian Gilgamesh Epic where the Mountain Nizir (Mt Ararati held fast the ship and did not let it go Noas ark and Yimas vera also rested at Mount Ararat (Gen 8 4 Vendada Far II) So it is very hard to say by what mountain Naubandhana was meant It is identified by Nanga Parvat in Kashmir Bigvedic Nava (Argo Navis 6, 58 3)—Skt. nau Lat navis Gk. naus Lith. nav Pro nau OF r nave Eng navy Teut nave Ger nave We Asvins brought Bhujya home in a hundred cared (satas aritra) ship (nava 1 115 5)"—Kakshvat Darghatamasa Antra—Gk eretrion (eressein eretes—cargman) Lith irlas Lat.

ramus AS of Eng oat; Ger ruder Nord ros
Gandhara (1, 126 7) might have been the Hapta Hindu
(Sapta Sindhu) the Indus basin of excessive heat (in the
summer) producing abnormal issues in women (leucorrhea
or gonorrhea) the present southern parts of Afghanistan and
Baluchistan It is the Gadara which Darius conquered and
mentioned and inscribed in the fifth year of his reign 516 B O
and Gedrosia of the Greaks Kandahar might have been
the capital of the province of the name Huen Tsiang called
it Kiantola the Kundara Gandhridoe of Strabo It might have
been the Gandharva desa of Rāmāyans (Uttara K. Oh 118-114).
Sindhu has seven affluents running in three courses (X 75 1
X 68 8; 7 86 6) When the beautiful river flows—the seven
streamed mother (septathi Sindhu Matā) with Sarasvati—they
flow fine like well milled jets (sudugdhāh sudhāre filling
a receptacle from the udder of the milking cow or nourahing)
swelling with the volume of their own water (7 86 6)—The
Sindhu (Indus) Satadru (Satlej) Parusni (Ravi) Asikni
(Chandra bhāgā—Chenab) Vitastā (Jhelum) Kubhā (Kabul) and

Sushamā (Shuram—Gomal) constituted Sapta Sindhu "Whether this bdellion (guggula) has come from Saindhava (Sindhu region) or overseas (samudilyam, Av 19, 38, 2), it is equally good Bdellium is a transparent, fragrant bitter lesin, derived according to Kaempfer from Borassus flabelliformis Arabian bdellium (bdallion arabikon) was vary fragrant translucent and yellowish Babylonian variety is mentioned by Pliny Egyptian variety is mentioned by many It was used by the ancients as a medicine, fragrant paste and for making incense "What is the use of cattle among the Kikatas? They do not drink milk Nor do they fly (food with butter) in the oven Give us the possessions of miserly Pramagandha, the lowborn (naicasākhām 3, 53, 14!"—Visvāmitia The Chinese, Malaya peoples, Burmese, Khasis, Garos, Dards, Mundas do not drink milk Kikatā is identified with Magadha (Vāyu P 105). A reddish brown and a white stead we received from Ukshnya (Uxiana) and Haryāna (Hyrcania respectively), and a harnessed chariot from Sushāman (8, 25, 22)"—Visvamanas Varyassas Uxiana inhabited by Uxians, is described in the cuneiform inscription as Uwaya (the aborigines), speaking an agglutinative dialect, possibly mixed Palae-Alpines and Austialoids who inhabited the terriotory, Khuzistan Uxinians were robbers who even harrassed the army caravans of Darius and Alexander, the tribe is now known as Huzha (11, E B 1, 547 C, 1, 140) Hyrcania, an ancient northern province of Iran, south of the Caspian Sea, the Avestan Virkana (wolfs land), as wolves were abundant in Elburz Mountain with its beautiful Demavend (Kāsvapa) peak It is known now a Mazandaran Suebāman abundant in Elburz Mountain with its beautiful Demavend (Kāsyapa) peak It is known now a Mazandaran Sushāman is Iranian Susiana (Shushan) It is the Kāssi of the cuneiform is Iranian Susiana (Shushan) It is the Kāssi of the cuneiform insciption as it was long under the control of the Kassites Its capital Susa was the spring capital of the Achaemenides and here their kings were crowned (11, E. B. 9, 140) In Susa under the foundation of the temple of In—Susinak (compare the Sisunāg dynasty of Magadha, ostensively of foreign origin—possibly Sces—Ses nāga—Sisunāgas) in the northwest part of the mound a vast quantity of bronze objects has been discovered, for the most part earlier than the tenth century B C. Among the monuments in other parts of the mound are the obelisk of Manistusn (conqueror of 32)

kings of Babylonia—Alpine) the stele of Naram Sin (grand son of Caspian Sargon of Agade 2530 B C) and the Code of Hammursh; and a large number of Kassite boundary stones (11 E B Susa) Susa (Blam) at the time of Vistaspa Darius (521—486 B C) was the centre of astronomical observations and calculations For in Matsya P (ch. 124, 28, 81) we find that there is a beautiful city Susa is Varuna (identified with Susianas Vendidad 1, 18). Alburz is the holy Monntain that there is a beautiful city Susa is Varuna (identified with Susians Vendidad i 18) Alburz is the holy Monntain—Hara Berezaite Its towering peak Demsvend (Taera) is sacred the abode of gode The sun moon and stars revolve above and round it Up! Rise up and roll along thou swift horsed sun above Hara Beerezaiti (Hara Pārvati) and produce light for the world (Vendidad 21 5 13) As you brought riches to Grest Sushaman (Susham) for Vyasvas O mighty blessed lady (8 24 28)"— O Agni bring Varo Sushaman and to all its people riches O ever youthful hero (8 23 28)—Visuannas caysava To Varo Sushaman, come with your help O Nasatyas for a long stay O strongest of the strong (8 28 3)—Pisuannas vasyasva Indra killed the Varasikha (2a Nāga tribe) adherents to aid Abhayavartim Chayamanas (Parthian) at Hariupiya (Hariob a tribniary of Kurran) as he smote the vanguard of Vrichivans Yadu descendants—Alpines) the rear fled frightend (6 27 5)—Paya Bharadvaya "O'Ye waters your great glory the poet is proclaiming to all mankind You sever rivers are marching towards the sea in three sories The Sindhu surpasses all rivers in its flow (1) Varuna has given the movements to rush through the channels from the precipitous ridges to this fertile earth in moving floods as a great stream (2) The roars of thy currents are ascending from the earth into the sky Thy rapids create a sound like a thunder-shower or the bellowings of a maddened bull (3) As cow gives milk to her calves so thy tributaries, O Sindhu, bring thee water with splashing sound As the king (rājan—Lat rex; Gaelic righ English roy regent, Fr roi and Ger reich) rushes in the war at the head of his army so thou rushest at the van of thy swift tributaries (4) My salutations to Gangā, Yamunā, Sarasvati Sntudri (Sutlej), Parushni (Ravi); hearken Ye O Asikni (Chenab), Marudvridhā (from the confluence of the Asikni and Vitastā up to their affluence with the Sindhu, Vitastā (Jhellum), Arjikiyā (Gabir), Sushomā (Sohan 5) First united with Tristamā (Luni), thou ait coursing in the same channel with Susaitu (Kohat), Rasā (Chitral) and with Sveta (Swat) Thou Sindhu with Kubhā (Kabul, Gomati (Gomal), Krumu (Kuian), Mehatnu (Suri) flow together (6) Flashing and gleaming she rushes gloriously through the realms Sindhu, thou art mightier than every other stream, and swift, pietty and worth seing like a spotted mare (7) On thy shore, Sindhu, there are good steeds, excellent chariots fine dwellings (Su-vāsa) and well-executed gold orniments. Covered with wool and sweet scented flowers, thou art always a youthful beauty (×, 75, 1-8)"—Sindhukshit Pranuamedha

Asikni and Sindhu shores have healing herbs (bheshaja. 8, 20 25) Asikni (Acesinos of Quintus Curtius) is the Chandia-bhagā, the modern Chenab. You have been placed in the centre of this earth in devotional glory by man on the Drishadvati, Apaya and Saiasvati Agni shine there (3, 23, 4)'—Devasiava Bharata Apayā is the Oghavati, a tributary of the Chitiang 3 miles to the south of Thaneswar On this river Kuru performed a sacrifice (MBh Sailya, ch 39) Drishadvati is the modern Chitrang which runs parallel to the Sarasvati Arjikiya and Sushoma are the Gabir and Sohan (Soanas of Megasthanes) rivers Krumu, Gomati (8, 35, 20) and Mahetnu (× 75, 6) are the western tributaries of the Indus Kiumu, the Kunar of the Greeks, is the Kurram Gomati is the Gomal later the name wis transferred to an affluent of the Ganges, flowing through Oudh—the Gumti Mahetnu is possibly the Tachi river flowing through Bannu Some however identify Mahetnu with the Argesan, an affluent of the Gomal Kubha is the Kophan and Kubha as the With the Argesan, an affluent of the Gomal Kubha is the Kophen and Kophes of the Greeks, the present Kabul liver "Let not Rasā, Anitabhā, Kubhā, Krumu or Sindhu hold you back Let not Sarayu and Purishin (Purushni) obstruct your way Bestow your blessings only (O Maruts) on us (5, 53, 9)—Syavasya Atreya Is Anitabha Alingai livel, a tillutary of the Kabul river? "Bribu is the leading head of the Panis, above them all like like the tall rushes on the Ganga (Ganges 31) To a seeker after wealth like myself he has given away a thousand (cows) as a gift as quickly as the wind blows (32) Let us therefore sing the glories of Bribhu's noble deed. He who gives thousand (cows) deserve thousand praises (6, 40 81-88) — Samyu Barhaspatya Parushni (Bavi) 18 a mighty river (mahenadi - mahinadi 8, 64 (74) 15) Woolen clothes (urni vassti) are woven on its shores (5 52, 9) About 1400 B C ten confederate tribes trying to cross the Parushni to fight against Pänchala monarch Sudäs sustained heavy losses To divert its swelling waters possibly they dug some channels But the dikes collapsed And some of the quickest were drowned (7 17 8-9) The overflow of Sindhu (Indus) Vibali (Vihos a tributary of W Indus) and Vitasta (Jhelum) you control O Inra by your magic (4 .0 12) Rass (1 112, 12) is Kunar Chitral river a tributary of the Kabul Sarama crosses as a spy (Av spaso Skt spasas, Lat specere Ger spahen) the Rasa to find out treasures of Panus (Phoenicians) Sarama is also the mother of celestial watch dogs (Canis Major and Canis Minor) of Yama (Perseus) Panis welcome her and ask her to stay with them. They declare that they will not surrender their cattle without fighting and they possess sharp pointed weapons (× 108 1 5) Raca (9 41 6) is vague—an ancient memory Like an unbriddled horse or like a calf that rushes to lick the udder of its mother Vipas (Beas) thou art rushing from thy mountain abode for union with the Satadru (1) Impelled by Indra (monsoon) you are swift like a chariot, and your mingled currents swelling with your billows race for the union with the sea (2) I have come near the motherly stream. I have reached the Vipas broad and pretty Lick ing as it were their calf, mothers are flowing to their common home (your 8) Vipas (Beas) and Satadru (Sutle) —We sweet swellen streams rush to our gods-ordained home Who can arrest our movements? What does the poet expect from the Rivers (4) Visvamitra Hearken to my words Rest a while in your journey Kusika (Kassite Kasya Khas) descen dentant with hearts fervent longing solicits the fovour from the stream (5) Vipas and Satadru "The thunder armed Indra smiting Vritra (Hydra, representing monsoon) has dug the channels of the rivers Strong fisted (su pani) Savits our god, at his behest onwards we flow (6) Forget not this word of you. O poet Let it be re-echoed through ages Please

us O poet by orations (ukteshu) Lower us not before men To thee be honour (3) Visvāmitra—'Listen earnestly O sisters to the poet who has came to you from far with loaded wagon. Bow lowly down for us to traverse easily Stay rivers with your floods below our a les (9). Let your waves bear up the pins, and ye O Waters, spare the thongs (Yoktrāni) And do not harm these sinless and faultless pair (Yoktrāni) And do not harm these sinless and faultless pair of bulls (13) The Rivers.—Yes we will listen to thy words, O poet Thou hast come from far with a laden wagon I yield to thee as a wanton maid (to her lover), as a bride to her married-man, to thee (10) When the Bhārata band, eager for fray, sped by Indra, has fared accross thee, then let your streams rapidly flow, this is the favour I crave from you who deserve our adoration (11) Inpestuous Bhāratas have fared over The singer has won the favours of the Rivers Now swell, and swell rapidly with your floods Fill fully your channels and roll swiftly onward, "(3, 33, 1-13)"—Visvamitra Visvamitra was the priest of the confederate forces of the ten tribes against Panchala Sudās about 1400 B C As the confederate forces included the Purus, who were descendants of Bharata, son of Dusyanta and Sakuntalā B C As the confederate forces included the Purus, who were descendants of Bharata, son of Dusyanta and Sakuntalā who was a daughter of a Visvāmitra ancestoi, the Paruavas were known as Bharatas, while clossing the Parusni, many of the confederate forces led by a Visvamitra decendant were drowned. It is apparent that they succeeded in crossing Vipas and Satudru "He who has only hope as his possession casts himself in the midst of foamy waters (gets drowned by jumping which throws water upwards). Bathing in milk Kuyava's (a native chief) two wives drowned themselves in the waters of Sipha (is it Siprā in Ujjain? 1, 104, 3)"—Kutsa "Fifty (damsels (as slaves Vadhu) has Purukutsa's son Trasdasyu (1875 B C) given me, a liberal noble, lord of the brave (36). And Syāva (Trasadasyu) brought for me a stiong steed at Suvastu's (Swat, a branch of the Kabul river, Soastas of Ariian) gorge, and a herd of three times seventy kine, a liberal donor (8, 19, 36-37)"—Sobhari Kanva Srota (1, 57, 11, 1, 95, 10=srota=stream \sqrt Sru=to flow, Gk re-ein=to flow, rey-ma=flood, ry-thmos=rhythm (flow in music), Lith. sraw-eti-to flow, strow-e=current,

dwells in high heaven (brihatah divo 5 48 11) So Endanus was the divine Sarasvati—the heavenly river that shines nus was the civine baravati—the heavenly river has sinines in the sky The other river was in the Punjab Sarasvati means—full of water—the Avestan Harahvaiti (Vendidad Far I 13) the present Arghand ab a tributary of the Helmand, flowing through Kandkhar Due to climatic changes defores tation, alluvial deposits on the river beds, the rivers have changed their courses even in historic times. Ballichistan was changed their courses even in historic times. Baluchistan was not so arid in pre historic times as evidenced by the presence of many dried wells and habitations. Mohenjo-dare was built by burnt bricks. That indicates there was a large supply of trees nearby. The good drainage also indicates that there was a heavy rainfall. The presence of animals like tigers buffialces rhinoceros and elephants also prosuppose the presence of moist lush jungle. Old beds of the Sutlej can be traced over an area 50 miles wide. And many cities which were originally built on the banks of large streams are now of considerable distance from them. Jumna once flowed many miles to the west past the towns of Sonepat and Panipat. It is very likely that the western tributaries of Jumna as Tons once flowed unto the Saragrafia. Saragrafia before that time was a flowed into the Sarasvati Sarasvati before that time was a mighty river. It flowed through now the dry bed of Ghargara (murnunng—Ghāgar—Hakry) and continuing its course through what is now Nara cannal empited its waters directly into the Rann of Kutch. Likewise it is believed Sutley and Beas con fluently fell into the Runn of Kutch. So there were 8 rivers with Sutley and Beas and (3) the third with the Indus and its tributance "Ida (Ila) Sarasyatı and Mahı—these three its tributaries "Idā (Ila) Sarasvati and Mahi—these three goddesses are delightful (I 13 9) Bhārati, Idā Sarasvati I call you all to lead us to glory and fame (I 188 8) Idā or Ilāvrit means both the earth and a sacred place Ida is a mountain in the centre of Orete closely connected with the worship of Zena who is said to have been brought up in a cave there. Mt Ida is on the Dardanelles from the sum mit of which, gods watched the battle in the plam of Troy Urjayanti (2, 13 8) is Urjayanta—Gurnar Hill.

Winter was the most important season (Skt. Bitu—Lith ruja—Lat ruji—turgescence of the vulva—Fr rujir—Eng rut

Hence Lat ritus, Eng rite and ritual is the time of the veneration (of Venus) of the gods like the duty of the Hindu towards his wife at the close of her Ritu—the menstrual period—the rutting time Winter (hima) robbed forest-trees (Vanāni) of their foliage (parna ×, 68, 10) Night (Rātri) is the mother of cold (himasya māta Av, 10, 49, 5) This indicates a cold climate where the leaves of trees become yellow in the autumn and fall out entirely in the winter Hima is ancient Indo-Aryan word, meaning snow and cold Hima = Lat hiems, Gk Kion, Avestan Zima, Lith Zema, O Slavic Zima, Fr hiver Hence Himalaya - the abode of snow, the name of the Balkan mountain as Haemus because of its cold and snow, separating Thrace and Moesia where dwelt cold and snow, separating Thrace and Moesia where dwelt the field Alpine tilbe Bessi (Vaisya) Hemanta (autumn) = Gk Kheimon Fields were cultivated each succeeding summer (samā 4,57,7) Samā = Avestan hama, Old Ger sommer, Ger sommer, Eng summer Year was first counted by only winter (hima Kaus Br 11,7) Then by both winter and summer "The first of the good lands and countries which I Ahura Mazda created was the Airya navenjo (Arya nivāsa = Arya home) There are ten winter months there and two summer months, and (even) those are cold for waters, cold for the trees Winter falls there with the worst of plagues (Vendidad. 1 3, 4) This cold climate is only possible in N Eorope of on high mountain plateaus Later three seasons are mentioned "Live prosperously a hundred (satam) autumns (sara), a hundred winters (hemanta), and a hundred springs (vasanta 10, 61, 4) Vasanta = Lat ver veris, Gk ear, O Slavic vasna, Av vanhar Satam = Avestic satem, Lat Centum, Fr centaine, cent, Gk e-katon, Eng century, Ger hundert Sarad is Avestan Caredha, Ger herbst (fruit gatherhundert Sarad is Avestan Caredha, Ger herbst (fruit gathering), English harvest Finally six seasons Babylonians had six seasons (sosses) of 60 days each, and a year 12 months of 360 days In Purusa Sukta (10, 90, 6), winter is dropped out and three seasons are mentioned—Vasanta (spring), grishma (heat—summer) and sarad (autumn) Pravrish is the monsoon (rains) when there is perspiration (ghaima. 7, 103, 9). According to Athaivaveda (8, 9, 10) six months (māsa) are cold (Sita), and six months are hot (ushna) Ushna (hot season)

we find the Indo-Europeans had the common names for them. The cow is a woodland animal It needs succulant grass and a good deal of water The new born calf cannot follow its mother. It can walk very feebly and its eye sight is defective It has to be hidden in a thicket behind trees so that wolves bears and jackals which were common ferocious animals cannot prey upon it Oxen drew the wagon and the plough. Cow's milk, cream and cheese were important articles of food. When a member of the family died a cow was killed and its parts were put on the dead body to supply him with food and meat in the next world (Asvalayana Grihys Sutra 4 8 the ritual manual of Asvaka—Assi tribe) A cow was offered to an honoured guest Cows were the object of armed raids between neighbours and hostile parties. Cattle formed the main wealth. The horse on the other hand is an animal of the open plain. Sk. asu—Gk okys Lat. acer meaning senft. Hence Sk asva Gk hippos and Lat. equus mean sunft runner. The Aryans were horse-breeders Madra and Kekaya kings ware known as asva patus—possessors of horses. Iranian Vistarpa—well dressed horse. (—Istava 1, 122, 13); Gk. Philippos—the lover of horses. Soyth. Aspourgos—who has many horses. Celtic Epopennos—chief of horses. The foal always accompanies the mother for at first its neck is too short to allow it to graze—and the mare unlike the cow has no large udder in which she can carry as large supply of milk for sackals which were common ferocious animals cannot prev upon short to allow it to graze and the mare unlike the cow has no large udder in which she can carry as large supply of milk for her foals. A steppe open grassland is suitable for the horse. The sheep which supplied the Aryans with its skin and wool for clothing and its meet as a nourishing food, prefers a short climber and likes low hills. The pig is a denizen of the forest where beech mast, accorns or chestnuts are plentiful. Serpents where beech mast, accorns or chestnuts are plentiful. Serpents (sarpa yearpeto ship along glide, creep year-to flow salis —water Sarayu—river sarpi=liquid butter Gk ert ein—to creep Lat. serpene—to creep repare (srep-ere)—to creep, Goth, slup-an—to alip salb-on—to anomit, As sealf, Eng salve) prefer fallen leaves of the forest under which they can silently creep and glide forth. The mouse and hares require forests and fields. Aquatic birds like swans and ducks require lakes and rivers. The otter and beaver need streams rivers and lakes (udra—otter vud—to well to gush to moisten to wet udra

which lives in water Lith. udra; Ger. ottar, Gk udros, udra (water-snake), Russ vuidra, Gk ud-or; Lith. wand-u Skt ud-an, ud-aka = water, Lat unda = waves, Hittite vadai - water.) It weighs about 10 kilos The fur consists of a short soft gray underfur The beaver is an aquatic rodent inhabiting Europe and N Asia It is now confined to the Elbe, the Rhone and to parts of Scandinavia (babhiu=Lat fiber=Russ bobei=Ger biber; Lith bebrus = Old Slav bebru = Avestan bauri) And falcons used to build their nests on high trees. Quails used to sing from the branches of the trees. When during the spring the trees were in blossom, the bees buzzed to gather honey of which the Aryans were very fond. The reeds grew along the rivers and lakes and from them shepherds made their flutes. The vedic tunava is Gk Tonos, Lat Tonus Fr. ton, Eng. tones, tune. The hills were covered with confers and birch from which the wheels, bodies and vokes of wagons were made as well as larges. which the wheels, bodies and vokes of wagons were made as well as lances Another tree was possibly willow (poplar) which grows only in cold and temperate regions. Willow—As with, Lith wytis, Gk itea, Lat vitex, Avestan vacti, Skt Vitapi, a designation for trees in general. Aryans were pastorals. Men were hunters, shepherds and fighters. Women developed agriculture and fruit raising by putting into the ground seeds of plants, which they found growing on the kitchen refuge. They used a forked stick with two branches, one forming the handle, the other the pole as plough. And such a kind of plough with a pair of oven has been represented in the rock carvings of Sweden and Alps of Bronze Age. Thus barley was cultivated. Heraclides says of the Athamanes (Fragmenta hist Graec. 11. 219) that the women were agriculturists while the men were shepherds. The country was well-watered not only from the melting snow, but also from rains. For from the root, Pat we find Skt path (footway), pantha=to travel, Gk pat os=path, Lat. pons=passage, Fr. pont=bridge, As paed. Perhaps the Lat. Vedum=passage over water, and vadro—fording a river have come from the same source. Possibly fallen large treestems over rivulets were used as bridge. And birch canoes were used in crossing large rivers and lakes. There is no common name for Ocean except Skt salila—Gk selias=Lat saleum—Goth, salws=sea. They also had iron, at least copper mines. Goth. salws = sea They also had iron, at least copper mines

in their regions. For by the use of iron and horse they could conquer other peoples who had only bronze and copper as metals for war instruments and had oxen camels or asses as their carriers which are not swift-moving like the horse.

Where is that Aryan cradle? It cannot be Central Asia For here on the semi desert region the camel roams freely
And camel has no common name in Indo European languages
Moreover it is not well watered It lacks forests Particularly no honey bees are found there It can neither be the Caucasus region. For tigers, panthers and hyenas abound here and they have no common names in Indo-European languages. It cannot be also Vacedonia and Anatolia, for here lions were common according to Herodotus in third millennium B C and they are mesoning to Herototta in that meaning to another the unknown in Indo-European languages It cannot be either Mesopotamia, or Egypt. For these lands lack confers And the common beast of burden was the cast And lion was common Amorite Hammurabi (an Aryan—Amara Kahamarabi) introduced horse about '000 B 0 in Mesopotamia and it was known as the mountain ass of Media The Hak satiu (prince to the foreign lands Hyksos-Shepherd kings) introduced horse into Egypt before which it was unknown there The Sumerian name of ass was ansu from which the Gk ones and Lat assnus have been derived It was hardly known in Homer's time

derived It was hardly known in Homer's time

Now the question of Sapta Sindhava which is regarded as the home of the Aryans by many orthodox Hindus as they say that they have no traditions of the Aryan migrations from abroad. They do not deny the common roots of Indo European tanguages but they say that the Aryans might have migrated to Iran Irak, Armenia Georgia Anatolia Greece Rome Russia Lithuania, Prussia and Scandinavia And they are known as Airyas in Iran Harri (Arya) Mitanni in Mesopotamia and Syria, Khattis (corruption from Kshatriya) in Anatolia, Yavanas in Greece Slavs in Russia and German (corruption from Sarman) in Prussia. But these are contradicted by philological anthropological and archeological facts The lord of our ancient home (pratrasyankasa) I invoke to resist the enemies) whom our ancestors invoked in olden times (1309)—Sunahaspa Ayaparts (Devorsta) According to Puranas Ikshvaku had a son Vikukshi; Vikukshi s 18 sons ruled north of Meru (Merv) and 14 sons

south of Meru (MP 12, 22-28) "Soma drinker thunder-armed friend (Indra) is the friend of our lovely-featured-dames (1, 30, 11) These lovely-featured white-complexioned people could not develop in a tiopical climate Moreover elephants, rhinoceros, tigers and buffaloes were known in Mohenjo daro, as depicted in seals found there If Aryans migrated from India, they certainly would have been found in Indo-European languages But they are not And moreover though Indo-European words have been well-preserved in the though Indo-European words have been well-preserved in the Vedas and in Sanskrit literature due to the fixation of grammar by Panini, the word-formations from the common roots are less by Fānini, the word-formations from the common roots are less archaic than in other cognate languages. Though not the root known, Lith wyra, Gothic warr, As wer, Teut wer mean man Lat. Vir means both man and husband, and from it. Virtus (virtue) and Virilis (virility) have developed. Avestan and Vedic Vira, Gk eros means hero, from Gk eros, Lat and Fr heros means demi-god. Indo-European languages are known as centum (pronounced as Kentum by the Romans) and satem groups, from the variation shown in the word for 100. Lat centum, Gk eskāton, Lith szimtas, O. Slav, suto, Avestan satem. Skt. satam. In the first, the consenant is hard and satem, Skt satam In the first the consonant is hard and gutteral In the other it is sibilant Thus Gk kuon (dog), Lat canis, becomes in Lith szuo, Skt sva The chief centum languages are (1) Greek with archaic forms in Arcadian, (2) Latin, (3) Celtics in 2 groups, one group changes qu into p (ancient Gaulish Welsh, Cornish, Breton, the other represents p (ancient Gaulish Welsh, Cornish, Bieton, the other represents qu by c (Irish, Scotch Gaelic), (4) Teutonic a) Gothic, (b) Noise (Danish, Norwegian, Icelandish, Swedish, (c) West Germanic (Low German, Datch, English), (5) Tocharish (Tukhaia) found in Chmese Turkestan, (6) Khatti (Hittite, Mitanni Satem groups consist of (1) Lithuanian (Lettish, Old Prussian), (2) Old Slavonic, (3) Albanian (including ancient Illurian), (4) Aimenian, (5) Avestan, (6) Sanskrit Manu (1, 67) says one full year of man makes one day and night of the Devas The northern solstice is their day, the southern solstice their night (Manu 1, 67) This is only possible in the Noith Polar region between 80°-90° But the Polar Region has not been habitable since man has evolved which is not more

has not been habitable since man has evolved which is not more than a million years In Kaus Br (19, 3) we find that on the

new moon of Maghi (Regulus in Leo) he (the sun) goes north for six months Having gone north for six months he stands still being about to turn southwards. He goes south for six months Ordaining the days and nights like a cunning spider for 6 months south constantly for six (months) north the sun goes If the observation is correct, there is now a difference of about 90 due to precession of equinoxes the constellations being distant from each other by 80 There is a shifting of one degree in 72 years. It indicates therefore that the sun was in the Leo at the equinox about 6480 years ago Now the vernal equinox is in Taurus As the zodicial calculations took vernisi addition in in latter has the Marian and the Marian below the place about 2000 years ago we come to about 2020 B O which is not improbable. In the marriage ceremony the husband shows the wife the Daruz asterism saying firm be thou like that (S G S 1 17 3) Dhruva is the Thumban in Draco which was the polar star about 2000 B C Thumban was also the pole star to the Egyptians when the great Pyramid of Ceops was built. The Earth besides rotating on its axis and revolving round the sun reels like a mighty gyroscope, but with so slow a motion that it takes nearly 25 900 years to make one complete revolution on its Polar Axia. About 4000 years ago the path of the Pole passed through Thumban in Draco (Manasi - Dragon) And it has not yet reached its nearest to Alpha Polaris in Ursa Mmor which it will do 800 years hence And in about 13000 years (half a revolution of the Pole) from the present the bright star Vega in Lyra will occupy the same position with regard to the Pole as Polaris now does. With 34 lights Indra looks around him (x 55 s) 34 ribs of the horse (out of 86) are cut and each is named after a god (the sun the moon, 5 planets 27 Nakshatras or asteriems 1 162, 18) "Like a dark steed adorned with pearls (Krisan) the fathers have decorated the sky with nakshatras (× 68 11)" Soma is placed in the midst of nakshatras (× 85.2) Kirttiki heads the list of nakshatras nakshatras (× 55.2) Aurthus neads the 1185 of nakshatras (Ta 4 4 10 Av 19 1 9 5) The vernal equinox in Krittikä (Pleiades) took place about 2800 B C and not later than 1800 B C Where is then the Aryan Oradle? Asia can practically be excluded for \(\sqrt{melia} \) for \(\shrt{honey} \) is not found in Asiatic groups of Aryan languages, while it is well-represented in European brahches And the Aryan languages in Asia are quite few and

Isolated, while in Europe they are well-spread and extensive. The Baltic shore is not possible, for from ancient days it has been famous for its amber (fossilized resin of an extinct pine) exports, and amber has no common name in Aryan tongues. Valdar Plateau seems to be the region. Here all the common Valdai Plateau seems to be the region. Here all the common animals and trees are found. This region is full of lakes, rivulets and marshes. From this plateau following the Dvina the Aryans could reach Lithuania and East Prussia and then into Scandinavia, Germany, and England And through the Dnieper into the Black Sea region. Following the Danube Aryans reached Greece, Albania, the Italian Alps. And especially through the Mother Volga they reached General Asian plane. At that time the Caspian was a bigger ched Central Asian plains At that time the Caspian was a bigger inland sea being united with the Aral and possibly the Black Sea. An earthquake opened the Bosporus and drained away their waters and lowered their levels. The Aryans settled in Meiu (Merv) From there one section entered Iran through Meshed and Demayend (Kasyapa, from which the Caspian Sea has been named) defiles The Mitanni Haris (Aryas Bib Them), the Cappage Them Them Hori) like the Cimmerians through the Caucasus Darial Pass reached the Enphrates highlands Ossets (Iron-man) also entered Armenia and Media through the Darial Pass where the Ossets are still found, slightly mixed with the Alpines, and speaking an Iranian dealect Another blanch following the Hall River (Hari-rud-Sarayu) and Harahvaiti (Sarasvati-the piesent Argand-ab, a Fributary of the Helmand) reached Gandhāra (Kandahar) and thence into the Sindhu (Indus) plains Another branch, possibly the oldest, following the Oxus reached the

branch, possibly the oldest, following the Oxus reached the Kailasa (Pamir Plateau Kailāsa is the Lat caelum, also coelum = the upper region of the earth, the heaven, and Gk Koilon) Then through the Kali gorge they reached the Sarayu (Sarda) plains and established the Ikshvāku Ayodhya Kingdom.

Through the Russian steppes the Negroes and Australoids were driven northward by the pressure of the Mediterraneans and the Caspians Fused together they formed the Chudes (Sudra) who are still found in Estonia. The upturned nose tips of many white Russian peasant women still betray the mixture of the Australoid with their concave nose. The antiquities of Chudes are found all over Russia, Urals, Altai

and western Sibaria By the pressure of the Alpines the Mediterraneans and the Caspians were forced into the refuge areas of the Valdai Plateau. There blended with the Chudes the Caspians and the Mediterraneans developed into the Aryans Aryans were blond tall dolichocephals. They had blue eyes golden hair a their nose was long straight and high, but variable. Their nose was long straight and high, but variable. They were nearly 6 feet tall. They were muscular but lean. They were horse-breeders. They were muscular but lean. They were horse-breeders. They knew how to make iron. They burnt their dead. The widows of their chiefs were burnt with their husbands on the high funeral pyres. They were proud valiant and clannish and partiarchal. With their rapid moving fine horses and terrible penetrating iron lances they imposed their authority over other races. Inspite of their vanity and racial pride they knew how to assimilate the higher civilizations of the Alpines Mediterraneans and the Palae-Alpines whom they conquered, though retaining their religious customs myths and languages of their own and trying to preserve their racial purity

of their chiefs were burnt with their husbands on the high funeral pyres. They were proud valiant and clannish and patriarchal with their rapid moving fine horses and terrible penetrating iron lances they imposed their authority over other races. Inspite of their vanity and racial pride they knew how to assimilate the higher civilizations of the Alpines. Mediterraneane and the Palae-Alpines whom they conquered, though retaining their religious customs mythe and languages of their own and trying to preserve their racial purity.

Dassa and Sudras were slaves. 'By whom all the peoples were made to tremble who chased away the slave peoples (disam varnam) he who like a gambler gathering his winn mgs seized the properties of enemies for the benefit of Arya, know ye men he is Indra 12, 12 4). Dassa (alayes were of various races. In battles Indra helps the Arya that brings him offerings. In every battle he brings hundred helps for the benefit of the worshippers. Punishing the lawless he delivered the blackies (Krishnam tyacam—black skinned) to the Mediterraneans (mānsve—Manus descendants) as fire burns every terraneans (manave - Manus descendants) as fire burns every faggot so he burnt him like a faggot (1 180 8)"—Paricchapa Dairedan We have reached a country void of pasture O Dateodas: We have reached a country void of pasture O Gods the land though spacious is unsuitable to us Brihaspati, as a relief give us cattle Find a path for this faithful singer (20) From day to day from their dwellings from place to place he drove the blackes (Krishna Jah sadrian:—like the black) Indra (vrishabha—bull, Indras carrier) slew the bar gain hunting and water loving Dasas Varchin and Sambara (mixed Oimbri 6 47 20-21)— Payu Bharadvaja 'Thou slewest the noseless (anisis—small snub-nosed, particularly of

and western Sibaria. By the pressure of the Alpines the Mediterraneans and the Caspians were forced into the refuge areas of the Valdai Plateau. There blended with the Chudes, the Caspians and the Mediterraneans developed into the Aryans Aryans were blond tall dolichocephals. They had blue eyes golden hair. Their nose was long straight and high, but variable. Their eyes were elliptically shaped like almonds or gazelles They were nearly 6 feet tall. They were muscular but lean. They were horse-breeders They burnt their dead The widows knew how to make iron of their chiefs were burnt with their husbands on the high They were proud valuant and clannish and funeral pyres patriarchal With their rapid moving fine horses and terrible penetrating iron lances they imposed their authority over other races. Inspite of their vanity and racial pride they knew how to assimilate the higher civilizations of the Alpines, Mediterraneans and the Palae Alpines whom they conquered, though retaining their religious customs mythe and languages. of their own and trying to preserve their racial purity

Dasas and Sudras were slaves. 'By whom all the peoples were made to tremble who chased away the slave peoples (dasam varnam) he who like a gambler gathering his winn ings seized the properties of enemies for the benefit of Arya, know ye men he is Indra (2, 12 4) Disas (slaves were of various races In battles Indra helps the Arva that brings him offerings In every battle he brings hundred helps for the benefit of the worshippers Punishing the lawless he delivered the blackies (Krishnam tvacam - black skinned) to the Medi terraneans (manave - Manus descendants) as fire burns every faggot so he burnt him like a faggot (1 180 8)"-Parucchapa Dairodass We have reached a country void of pasture O Gods the land though spacious is unsuitable to us Brihaspati as a relief give us cattle. Find a path for this faithful singer (20) From day to day from their dwellings from place to place he drove the blackies (Krishna Jah sadrisir - like the black) Indra (vrishabha bull, Indra a carrier) slew the bar gain hunting and water-loving Disas Varchin and Sambara (mixed Cimbri 6 47 20-21) Payu Bharadvaja Thou slewest the noseless (anisa-small snub-nosed, particularly of



Agni, with Yadus, Turvasas Druhyus Anus and Purus you sojourn even from thence O bulls come hither and drink offered Soma drinks (1 108 8). In Ten Kings War (7 18) Disass (Daoians) became victorious North Pinchila Sudia (1385 B C) of Ajamira Disa descent fought against and defeated the Turvasas Druhyus, Anus Purus and others, Sudias a ancestor Divodisa (1465 B C) already had defeated Sambara (Cimbri) Yudu and Turvasu (9 51 2)

Anus (Amyu Yast 122) were Palae-Alpines, Sumerian (Puranic Sumeru) Anu from sncestor worship became the

heavenly father Ann (a name of Vishnu) or Enlil The Palae-Alpines are industrious frugal, and of cheerful and loyial disposition. They are of democratic tendency though capable of a great discipline. Their women have been always enjoying a great amount of freedom as in Burms of modern period The Palae Alpines developed agriculture They raised fruits and barleys. They made buildings with wet clay. The use of reeds allows of large construction with rounded tops This wattle building was then used with sun dried bricks mortared with clay Burnt bricks were introduced by Alpines with bronze about 8000 B C The men and women used to wear planted grass or skin. Men were shaved sculpture the earliest type is a cross legged naked seated figure. Copper gold and silver were known and well utilized In an ancient grave at Ur to depth of 30 feet below the sur face level has been found the gold plated sword of Kalam Dug—the Hero of the Good Land Here have been found the skeleton of 4 servants and one lady with the cylinder seal, inscribed with the name King Mes Kalam Dug. She wore a headdress of gold ribbons radiating in seven strips from the center of the head a wealth of gold poplar leaves strung with cornelian and lapis lazuli beads and around the neck gold chains and cornelian beads. Her cloak was fastened at the shoulder by a heavy gold pin with a curved head surrounded by a cornehan bead she had gold earnings and finger rings. At her hand was a fluted gold tumbler. She possessed an engraved gold cylinder seal. On the seal were depicted men carrying offerings, one of which was a lyre surrounded by a bull a head. Numerous were the vessels of copper stone and clay The place

was littered with animal carcasses, including sheeps Was she the high priestess or the queen (N G M Jan 1930)?

Palae Alpine skulls have been found at Harappa the Anus And they spread over the Punjab up to Bihar Anus were defeated by Panchala Sudas In Rig Veda (X, 59, 10) we find Usinārini's waggon Usinara (1900 B C) was a famous Anava king This is either his wife or more likely leigning queen of the Usinaia dynasty, as women had great privileges Usinara's son was Sibi Sibi Ausinara is the author of X 179, 1. Sibis were conquied by Kausikas, Madras, Kekayas, Ambasthas Nabhas "O Lord (Saspati) Nabha, the giver of prosperity (samsphāna), protect us from oppression (asamāti) in our houses (1). O lord Nabha, maintain us so that we can stay at home (2) O Lord of prosperity, you have a thousand ways of maintaining us Bestow one of them upon us Give us one so that we may be sharers of thy prosperity (Av 6, 79, 1-3)" India helped Kadru, Yadus and Turvasas (8, 45, 26, 27) Kadru is light-yellowish complexioned They were the Palae-Alpines They inhabited Kandahai province And from then settlement, that region was named Gedrosia by the Greeks Asagarta (Sagartian Pulanic Asvatala, Asvagribhas) lived in Eastern Zagros (Ptolemy 6, 2, 6) It was the Asis (Saka - Asvaka, Tocharian tiibe) India destroyed the Vaiasika (Vālisikha) in aid of Abhayavartin Chāyaman (6, 28, 5)

Traitana (1, 158, 5) is likely to be a mixed Alpine, Tatar (Pulanic Tittiri whose sacied book is Taittaleya Samhitā) (Pulanic Tittiri whose sacied book is Taittaleya Samhitā) (Pulanic Tittiri whose sacied book is Taittaleya Samhitā) vessel (1, 116, 3, 1, 158, 3) who came in a hundred-oared Tugra (1, 116, 5) is Tulgash or Turkish tilbe belonging to vessel (1, 116, 5) is Tulgash or Turkish tilbe belonging to Yenganu (Huns Pulanic Nāga) Sanakhas (Pulanic Sankha Hiung-nu (Huns Pulanic Nāga) Sanakhas (Pulanic Sankha whose rituals wele Sankhāyāna Slauta and Grihya Sutras) whose rituals wele Sankhāyāna Slauta and Grihya Sutras) whose wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy, and though long-settled they fled (1, 33, 4) bewere wealthy and Grihya Sutras, and Grihya Sutras

(Parthian) at once displayed his gift; and Mayava displayed his gift (X, 93, 14 15) — Tanva Partha. You Indra, for devout Astrabudhna liberated Venya among mankind (A, 171 8) is mentioned in the Puranas that Prithi Venys introduced agri culture by removing stones and levelling the ground Before his time people used to live on hunting and wild fruits and tubers Her (Prithivi earth) Prithi Venys milked; from these both cultivation (krishi) and grain (sasya) upon these cultivation (agriculture) and its produce (sasya) men subsist (Av 8 10 24) According the Puranas Vena was a ruler in Anga (Southern Bihar) he did not believe in Vedic rites. His son Prithu came under the Vedic influence. He drove away the black pigmies—Nishādas (Negrito) with short and wide nosa (uru nasa) into the Vindys Hills (Vāyu P ch 6d) Nāsa is Lat nasus Lith nosis Russ, nosu Ger. nase Fr nez Eng nose Arbuda Kidraueya Sarpa (Niga) is the author of Bigyedic (X. 94) Jaratkarna (MBh. Jaratkaru) Airayata Sarpa of Rv X. 76 Sarpasain (unon straward Alfavata Sarpas) of Rv X. 189; Urdhvagravan Arbud of X. 1/6 Seeha Nāgas are Sees of Sog diana (sudugdha) and Vāsuki—the Usuives (in Hinza nagar the language is Barusaski) Abhiras are the Avars and Guyars Huns conquests The Huns were dominantly Palse-Alpines but were nixed with Mongoloids and Alpines and they absorbed but were nined with Mongoloids and Alpines and they absorbed various other racial elements during their conquests, either through the capture of slaves or otherwise. Sakas worshipped serpents. And believed the existence of mermaids (Nāgini) having the form of very pretty maiden above the waist and that of a snake below usually in a coiled form. They were eternally young voluptuous and seductive and endowed with prophetic powers. The Hunas (Hunus Farb yast 100) were pretty people with regular features as for examples the Hungarians. When their father died, the son married his step-mother When elder brother died, younger brother married his brother surveys exchange of wives was common. On the last 6th and When easer prother died, younger prother misried his housed a wives exchange of wives was common. On the let, 6th, and 9th of the lunar months of the year they made offerings to Heaven Earth, ancestors and spirits. Hung nu lived on horseback and moved about from place to place in search of fresh pasture. The adults were expert archers. Their food was flesh

and milk, and their clothing the skins of animals. Old peoples were despised and neglected. Their punishmests were severe. Marriage was by arrangement with their parents, not by capture. The dead were kept for sometime after death, and the mourners gashed their faces. Amusements included singing antiphonically, playing dice and drinking koumiss till they were drunk. They sacrificed to heaven and to the spirit of their ancestors (11 E. B. Turks)

At Khafage, 38 miles northwest of Bagdad, an ancient temple has been unearthed of Jemdet Nasar period (about 3000 B C) Here a stone statuette of a Mongolian (or mixed with Palae-Alpine) has been found with open breasts and flounced skirt There is a nude headless mother goddess of Palae Alpine type with well-developed globular bleasts and thighs - before whose offering stand, there is a stone representation of a bull being sacrificed There is an ancient Babylonian cylinder seal (now in Dresden Museum) where a man is offering before a Mother Goddess two basketfuls of fruits and two goatshaped libation vessels with spouts on their back (I L N Sept 28-1936) At Khafage, predynastic Sumerian findings of about 3000 B C show limestone amulets of wild boars, bulls and adorsed two fish A lion-headed eagle, carved in schist, with a separate tongue of ied jaspei, bearing an archaic undiciphered inscription in the moon god's temple Figures of Mother Goddess or temple women with marks of tatooing on the shoulder Necklaces of beads of glazed steatite, cornelian, agate and shell, strung together with bored holes Girdles made of cut shells, sewn on a piece of material A green stone vase in which when four cows come back to the muckyard from grazing, their bellies distended with feeding, their calves skip wildly towards them, lowing, gamboling all the while (compare Rv 8, 88 (77, 1) A plaque relief of victory banquet or the wedding feast of the Fertility Goddess, at the end of which all the participants broke their goblets A copper war chanot drawn by two asses (I L N, sept 14-1935) "As cows low to their calves in stalls, so with our songs we glorify you O Indra (Rv 8, 77 (88), 1). "Like a charioteer (O Indra) come swiftly to us as calves rush skipping

delightfully to their mothers (Rv 8 84(95) I) The Palae Alpines domesticated many animals at Anau.

Turvasus and Yadus came by the sea route (6 20 12; 1, 174, 9), without being drowned (4 30 17) and from very far 6 45 1) Raging billowy waters roared, O (parvnatah Indra like the cataracts as over the ocean (samudra) O hero (sura) you brought safely Turvasa and Yadu (6 20, 12) Vedic Turvasa is the Puranic Turvasu (Vivu P ch. 99) Avertan Turans (Tura Yasna 46 62) Turvaxus of Palestine the Mediterraneans Yadus are the Yutaya (Utians) of the inscription of Darius (Beh 3 40) inhabiting Pars, Fars from whom Parsis and Persia have been named) It is therefore likely that the Turvasus (Turans) and Yadus (Yutiva)—the Mediterraneans and the Alpines-pressed by the formidable Arvas sweeping over Iran like a hurricane were compelled to leave Fars and reached the Indus basin over the Persian Gulf The Medi terranean and Alpine cranis have been found at Mohenjodaro Tugras (Turgash = Turks) came in hundred cared vessels (sataritran navam 1 116 5) The Mediterraneans and the Alpines were great sea faring peoples and expert ancient navigators The Mediterraneans were known in this country not only as Turvasus but also as Manu Mina Manava. Matsya (Av Mashay) Egyptian Menes (Mena) Ir Man Ar Minni (Jer 60 27) Minos king and legislator of Crete Mannus as a desty of the ancient Germans according to Tacitus; three main branches of Germany sprung from 8 sons of Mannu (11 E B Teutonic peoples) Skt Minusa = Buss muzhu-O Bulg manzhi-Ger man-Eng man, Lat mas-Gk menos-male Manu is the leader of men (gramant & 62 11) Mina tribe in Rajputana and Muna var clans in Dravira are found Indian boats have metalic eves in the bow of their large water crafts. The oculus decoration in the prow of the boats was the Minoan custom. Egyptians thought boats needed eyes to see their ways through and oculus represented the eyes of Osiris. The Greeks and the Romans borrowed the custom. Greedy people send their boats to the sea "Through Agni (fire signal or Agni as a god) we call on Turvasas Yadus and Ugradeva from far Agni, bring Navyvasta Brihadratha and Turviti to subdue the foe (1, 36 18)

The Mediterraneans have slenderly built body with medium long skull, small mouth, thin lips, well-arched forehead and smooth eyebrow, wavy hair, nice beard (of dark-blown colour). beautiful almond-shaped eyes. They practiced burials of their dead in long burrows which have been found at Harappa on the top strata of which there are jar burials of the Caspian and round burrows of the Alpine The Mediteiraneans are a very artistic people of keen intellect and vivid imagination. Mediteiraneans invented copper tools which gave them control over their neighbors. Their face has grace and vivacity. The tendency to undue fleshiness is rare. The secondary sexual characters are well-developed. The breast is hemispherical and The pelvis is ellipsoid, but large There is an undulatory wave of beauty and harmony all over the whole body Nahusha (1, 31, 11: Bib Noah) lived on the banks of the Sarasvati (7,95,2) Kanvas desne the horses of the Nahusas (8.624) of Nahus (a variation of Nahusha) were subdued (7,6,5) won a battle (9, 89, 2) Rv 9, 101, 7-9 has been ascribed to Nahusha due to suggestion inferences or to glorify the ancestois (x, 806) Nahusha descendant is Yayati (1, 31, 17) who resembles Bib Japheth or Cretan Iapux Like Noah who is the father of 3 laces-Shem (Semities), Ham (Hamites) and Japheth (Javan=Ionians) Yayati is the progenitor of the Five Races-Turvasu and Yadu by his wife Devayani, daughter of Bhrigu Usanas Sukia, and Druhyu, Anu and Puru by his wife Sarmisthā, daughtei of Dānava rulei Vilsaparban (Vāyu P Ch. 93, 15-17) To Yayatı, has been ascribed the composition of Rv 9, 101, 4-5 According to Puranas, Ila (Mt Ida in Crete the sacred mountain of the Minoans) had a son Pululavas Aila Pururavas married nymph (=bride, maiden) Uivasi sıx sons—Ayu, Amāvasu etc Urvası deserted Pururavas episode is described in a fine diamatic poetry (x, 95) Ayu resembles the Chinese king Yao (2357-2253) who in 2300 B C determined the vernal equinox in Mao (Pleiades = Kirtika). Ayu married the Dānava Svarbhānu's daughter Prabhā, and their son was Nahusa Nahusa married his step-sister Virajā, and they had two sons—Yatı and Yayatı (Vayu P Ch 91-92) There is a Nashi tribe, called by the Chinese Lolo in the gorges of the Yellow River in Western China near Tibetan border Though

there are Mongoloid mixtures among the Nashis, yet many of the tribes are six feet or even taller are lean have fine brunet complexion, straight long slender nose and broad elongated face (N G M July 1.21). It seems there is also some Caspian admixture among them. Ayu, Kutsa and Atithigva were brought under submission of the young Susrava Turvayana (Ikshvaku Taryaruna 1 5 10 2 14, 7). Ayu knew the ancient formula (purvaya, nivida) to invoke Agni (1, 96 2). Rv 9 106 is ascirbed to Manu Apsava, Cakahus Manava, Turvit (I 112 23; 2 18 12 4 19 6) is the Avestan Taurvati (Farb Yast 116) and Palestinian Turbazu an allied, Turvasu clain Kurunga is an opulent king of the Turvasas (8 4, 19). Turvasa Purodas urged by Mataysa (a Meditarranean tribe) and Yakshu (Veddhas Rushans) and driven by famine was eager for spoils. The Bhrigus (Bryges—Phryges) and Druhyus (Druses) came to their aid, Friends helped the friends (6 18 6). Mataya Sammada or Mina (Mimoan) rajaputrah are the joint composers of 8 56 (67). They prayed to Aditi. "Wide-ruling and far spreading grant our progeny protection so that they may expand while living (c 56 (67) 12. From the settlement of the Mataysa Japur area was called in ancient times. Matsya. A Mina living (* 66 (67) 12° From the settlement of the histayns Japur area was called in ancient times Matsys. A Mina (Meens) tribe is still found in Rajputana Turvasu clans migrated south, and four sons of Duskrits—Fändya Kerala, Chola and Kulya—established kingdoms after their own names—Fändya (Madura and Tunnevelly There is a Minäkshi goddess in her magnificent temple at Madura—the patron detty of the Mediterraneans) Chols (Coromandel coast, where the Andras, the Mediterraneans established a mighty empire) Kerala (Malabar Canara and Tunnevea) and Kulya (Kunta). the Mediteraneans established a mighty empire) Kerala (Malabar Canara and Travancoro) and Kulya (Kuntala-Kamita Yayu P Ch. 99 5 7). Sarytias (1 51 12) pushed their way to Gujrat possibly as an advance guard of the Yadus After Saryatis descendant Gujrat was named Anarta Anarta suster Sukanyi was married to Bhirgava Cyavana. Their capital Kusasthali was occupied by the Veddaid Negro mongrels—Punyajana Rikasasa The scattered and fleeing Saryatas joined the Haihayas (Alpines) as a tribe among them (Matsya P Ch. 69) Navagvas (1 38 5) whose priests were Dasagva Angiras (4 51 4) seem to be identical with Nabhanedisthal (Av Nikhanadistha × 61 18) belonging to the Bessi (Vaisya tribe) Alpines who

PEOPLES 187

founded the Vaisali dynasty. They might have descended into Visāla teiritory through the Tapati or Iravati (Gogra) from Tibetan plateau The hymns x, 61 and x. 62 have been ascribed to Nabhanedistha, bocause his discendants are mentioned there in. The poems are of much later date for the name of Kakshivan (x, 61, 16) who lived about 1700 B C is found therein Nabhaga's son was Bhalananda Bhalananda's son is Vatsapri (2025 B C) to whom has been ascribed the hymns of 9, 68; ×.45, 46, One of their descendants is Tilnabindu (1600 B C) Trinabindu's son was Visala who founded the great city of Vaisali famed in Buddhistic legends Trinabindu's daughter was Dravira Dravira was mairied to 3, 53, 16) From Dravirā South India was named after her-Dravira (Pulasta ruleis weie called Rāvana, as Mithila lulers as Janaka, and Kekaiya ruleis as Asvapati) Poligars of the Deccan have possibly originated from Pulastas (Gk Pelasgos) though now much mixed Poligais even not long ago were predatory and warlike They built walled mountain forts, and they were armed with axe, bows and poisoned arrows Like all ancient Caspians they plactised fraternal polyandry Tirupathi was their sacred shrine (Cietans) were called Termilae (= Tamils, Herod, 1,173 Trmmili = Dramil = Dravida) by the Lycians and Carians, and they had their names after their mothers. At Mohenjo-daro Mediterranean crania have been found (Rāvana = Tam iraivan = king)

Yadus (Yutiyas) were Alpines The Alpines discovered bronze through which they advanced their conquests. They are demociatic in their habits, gay and social. They are frugal, and methodical. Yādavam Janam are the Yadu tribes (8, 6, 48). Yadu and Turvasa came over stormy waters (5, 31, 8) but the Maiuts were favourable (8, 7, 18). Turvasas and Yadus were defeated by Atithigva. Divodāsa (7, 19, 8). A hundred presents from Tirindira (an Iianian name. Vrisni. Viloman was known as Tri-indra. Tittiii of Tartai = Tatar to whom we owe Taittiiiya Samhitā, Brahmana and Upanishad) and a thousand from Parsu (Parsa = Persian) have I gained (8, 6, 46).—Punarvatsa Kānva "Kukuha (Andhaka Kukura of 1400 B.C.) has advanced the fame of Yādava Janas by making piesents of ushtrān (camels) yoked in four (8, 7, 48.". At Hariyupā (Harappā.), the vanguard

of the Vrichivans (Vrignivants—Yādava) were attacked and the rear fled frightened (6 27, 5) Three thousand mailed Vrichivans eager for fame on the Yavyavati (Zhob) O highly praiseworthy Indra before the arrows hike bursting vessels went to their destruction (6) Turvasas were made prisoners by Srinjaya (of North Pancāla dynasty 14 20 B O Zaranka of Darius; Sarangos of Hero 2, 93 Drangian near Saistan) and Vricivata to Daivavāta (Abhayāvartin Chayanāna 7) O Agni, two wagonloads of damsels (vadhu=slave girls) twenty oxen the liberal emperor (samrat) Abhayavarti Cayamina has given me. This magnanimity of the Parthavans (Iran Parthava Gk. Parthyse) Pathan) is hard to beat (6 27 8) — Bhoradotja "Thou slewest Tugra (Turgans—Turks) and Vetasu (Vidasa—mixed Palao-Alpines) and made Tuji (Thatagu—Satagydae of Kabul region Tajiks of the Oxus basin Iran and Afghanisthan Tocharians) strong who praised thee O Indra (6 26 4) Thou (Indra) hast killed Karanjas (Kanjars) and Parnayas (Parni—a Saka Parthism tribe Perms leave wearers in the girdle two allied vagrant tribes in the Punjab) in victorious marches (vartani) of Atithigva Divodias (1450 B C) Thou hast destroyed a hundred Vangrida (Zaranka) settlements which resisted the sieges of Rijavan, son of Vidathin Bharndväjs, the Puru king 1 53 8) Thou heroically bent hast scattered the 1 53 8) Thou heroically bant hast scattered the Pipru (Babylonian) settlements and helped Rijavan when the robbers were struck dead (1 51 5) Kanita Prithusravas (1, 116, 21) a kadava son of Sasabindu, gave valuable presents to Vasa Asyya Pani. (Gk. Phoinix Lat Punious – Phoenician of (8 46 21) realizes higher prices for goods of lower value and when provoked he is very powerful (5 34 7) Pani is wealthy but makes no sacrifices; he is sometimes plundered and killed (4, 25 7). Pani lives on water his wealth incites even the law abiding (rite jata) to rob the Pani of his wealth (6 18 3) Destroy in us the mentality of Pani (8 58, 2) Indra is asked not to be a bargain hunter like Pani (1 33, 3) Pani is a trader (Vipanyan 1, 180 7) From the wealth of the Panis paniyas means majestic (1 57 3, 1 29 2), and panya means trade (8 58, 18) Indra is called vanija, a trader (Av 3 15 1) Is vanija a variation of Pani whose profession was trading? Kill, O Indra, Pisacin (Pisacam y Pis-to glow pin)—to dye Pisaca—

brunet. Gk poi-kilos = variegated. Lat. pingeie = to paint. Eng. pigment) armed with bronze lances (pisanga = golden coloured = bronze, bhristu = pointed instrument 1, 33, 5). Pisāca means golden-coloured, 1 e, brunet Pisaca Dynasty led by Yasakara ruled Kashmir for a long time Pashai (a variation of Pisacha, spoken in Laghman of Afghanistan), Kafir (in Kafirstan), Khowai of Chitral and Shina of Gilgit are Pisaca languages, and the peoples are mixed Alpines And Shina is the basis of the Kashmiri languages. And in northern Kashmir the peoples are dominantly Alpines, among whom the Dards still speak Pisacha language Vaisya (× 90 8) is the Bessi tribe that lived on the Black Sea Bessarabia has been named after this powerful tribe Ukraine is mostly inhabited by them Bessi is an Alpine tithe Nabhanedista established the Vaisya Visala (Buddhist Vaisāli) dynasty in Tirhoot Vaisva seems to have nothing in common with vis (8, 35, 18) which is a community settlement Vis is Avestan vis, Lat vicus, O. Sl vise, Lith wiesz, Goth veiba, Gk (f) oikos-dwelling Lat vicinus, Fr voisin means neighbour Skt vic-to enter, vesa = an entrance, a dwelling, Lat uicus = village, Goth veihs = village Skt vas=to dwell, vastu, vasatı=dwelling place Lat uerva =a home-born slave. Vispati (1, 31, 11), lord of the community Vispatni (3, 29, 1) = house-mistress = matron Kshatiiya is falsely claimed by many (7, 104, 13) Kshatram (8' 35, 17) is a fighting man Khatti-Mitanni Mariannu is a fighting nobility Marya (2, 10, 5, 10, 27, 1) is a hero and a gallant Lat maris, = male, Lat maritus, lover, Fr mail=husband Lat mailtare, Fr marier = to marry Maryada = one fighting heroically for the protection of boundary Avestan merak is a fighter and lover Possibly marya had some relation with the war god Marutta-Amorite Martu, Roman Martis—the planet Mars \(\sqrt{mar} = \) to shine as Marichi Lat mare, Gk plem-myra (see waves), Lith mares, Russ more, Ger meer, Fr mei = sea Goth marei, As mere, Ir muir=lake As mar, Ice mor, D moer=moor, wasteland, Skt maru=desert Ice moerr, D mear, ME meer= boderland, Skt maryadā - boundary Khshathra is used in the Gāthās (Yasna 19,11) in the sense of kingdom, khshathra-vallya as martial might (Yasna 16, 3) Kshatriya is the Khatti Khatti is likely to be the Kelt, Catti of Germany, Roman Galli (Gauls)

and Celtic Gael Vitihavya (Pur Vitihotra) belongs to Haihaya Talajanga tribe Vitihotras conquered Midland and were the rulers of Baranasi The Kāsi (Kassite) king Haryasva revolted But he was killed Haryasva s son Sadera drove the Vitihotras.

Bharadyajas were the priests of Vitihotras (6 15 8)

About 2635 B C the powerful Caspian ruler Sargon of Agade undertook a compaign against Puru shkhanda (Puru khanda - Puru s share) in Asia Minor Sargon s successor possibly grandson Naramsin in 25th century B C fought a victorious battle against a coalition of 17 kings which included Pamba, king of Khatts Zapana king of Kanesh (Kultepa on the Halys) and Khuwaruwash king of Amurru (Amara) in Southern Syria. Naramsin had also to defend his empire from the attacks of Umman Manda which came from the north Manda (Marunda) is a Cimmerian (Caspian) tribe who came from the Caucasus Mounts settled in Armenian region for which it was called Mada (Media) From Purush Khanda ruler Labarna the territory is now called Lebenon An allied tribe Linites were settled in the southern coastal region-Arzava-(Arya) Luya (Cilica) Carchemish (Iscrabis) on the Middle Euphrates a strategic place of importance against Egypt and Babylonia became the Khatti capital about 2000 BC and remained their military centre for two centuries The city is known in the Bible (11 Chron 35 20) and in Babylonian records as Karkamishu or Kargamis In the Khatti capitals main street a slab-bordered avenue led into a square from which between slab-built walls stone steps ascended to rubble-street foundation of the Hittite kings. Two stone blocks inscribed with the Hittite characters formed their cookstove while over their doorway stood a slab carved with a winged orb the crescent outlined within its full disc. The main street slabs in basicless alternately black (basalt and white (limestone) might be described as a triumphal entry series They display a strange procession of long robed priests soldiers, municians and slaves. The slaves, clad in a kind of Highland kilt bore sacrificial kids And the Hittite infantry armed with spear circular shield and conical casque wore foot-gear with tip-tilted toes. Turn in the street shows a second series of alab-basreliefs. Here are hons, rampant hons

14T

with eagle heads and wings, eagle headed and leopard headed deities, double-headed eagles (Hindu Bherunda) and a bicephalus sphinx combining the cranium of man and hon (Nara-simha). Slabs in the adjacent palace wall show war chariots drawn by spirited horses, bearing kings with diawn bows. This proves that by 2000 B.C the horse had appeared in Asia Minor On nearby pedestal stand two bulls, emerging from a single block of stone which is hollowed between their backs so as to form a sacrificial altar Opposite two opposite bulls hold alopt between them something which resemble a lotus bud (N G M Dec 1926) Abraham found Hittim established in Canaan where the patriarch, being newly widowed and a stranger in the land, was presented with a burial plot (Gen 23, 2, 7) Esau married two-Hittite women, and the domestic complication of a Jewish mother-in-law with two haughty daughters-in-law of the ruling race is amusingly disclosed (Gen 2, 7) The Puru Khattis were Alpines with prominent aquiline nose, forming one straight line with their sloping forehead They had stout frame, tall stature, broad shouldiers and arrogant countenance Hittite Mitanni and Kassite names are Aryan in structure Hittite (1400-1200) B C) Endarva = India + Arva or urva (to huit) = dreadful Indra (a minister of Khattusila = Kshatriya Sila), Lupaka (a general = Lopāsa (Gk alopex) = a Jackal, Summittaras (chief of Kargamish) = Sumitra = a good friend, Abi-mardas (Amurru king(=Abhi (war)+maidha (to tread down)-a conqueror: Vasanna (pavilion in a horse race) = Vāsana = a dwelling, Tapasas (fever) = Tapasa (heat), Ganza (hoise fodder) = Ganja (a mart where grain is stored, Suwaia (the temple of Teshub) = Svar (heaven, the residence of Indra) Hykso Semgen (Biblical) Simeon) = Sumahan (very great), Kar = Kara (to act, tax, Av. army), Apachnan = Apaghnan (destroyer), Bnon = Vanāna = Av. Vanan (victor), Aseth = Vasita (one who dominates), Kertos = Karti (Kartā = manager), Avaris (the fortress) = āvarana (defence enclosure): Sutekh = Sutel (very mighty = Satikantha); Tauti (a queen) = Tavatı (powerful or Tapatı, Mıtanni (1475-1286 B C) capital Wassugganni = belonging to Vasukis—Usuivis, Maria (a warrior) = marya (a gallant), Sanssatar (Hari king) = Saukshatia, son of Sukshatra (a good ruler), Suttarna (Harri-King) = Suta-arna (the son of the tumult of battle), Dasratta =

Dasaratha (having 10 chariots), Mattiuaza - Mati+Ojasas (sprited mind) Dasarti = Dasarti (enemy of the Dasas or Dasarathi son of Dasaratha) Artssumara (Mitanni king) = Rita sımara (remembering Ritas or rites) Artsatıma (grand father of Dasaratha) — Rita tama (the most pious) Sarmu = Sarman (protection) wirst (a governor) - Virst (one ruling far and wide emperor) Indara - Indra; Mutra - Mitra; Nassatha - Nasatya (Av Naonhaipya Uruwannas (Varuna Hittite Arnas - sea Teshub - Kesaba Syrians in Amarna Letters -13:10 B C) of possible Mitannian origin Artamanya of —1840 B C) of possible Mitannian origin Artamanya of Ziribasani = Ritumanya (respecting rites Av artamanya) artamanya of Ruhizzi (řijavya-honest Av krezwa); Biri maza (an Egyptian officer) – Viryavāja (one who has won the prize by his prowess) Biridaswa, chief of Yanuanma—Brihadasva (a big horse); Biridaswa, chief of Yanuanma—Brihadasva (a big horse); Biridaya of Megiddo – Vridha (wise old Av bridya Bardiya the youger son of Cyrua); Bisitanu (mentioned in the letter of Amurru chief Abdi Asirta – Vasa tanu (whose body under his control Av Peso-tanu—vishatanu whose body is poisoned) Dasru, a Syrian chief – Dasra (an sas doaru—biter; Gk. daxru—asru—tear) Etagam, ruler of Kunza, son of Sutarma—Eta gama (swift runner); Indarata chief of Alvana — Indarata (unbeld) by Indra). Irimavayas a chef of Aksapa = Indra+uta (upheld by Indra) Irimayayas a (Pharaoh s messenger Av Airime-aspa (Azimaspoo, a Soythian tribe Herod 3 116-quiet horse); Māyarzana-Mayāvarjana (one who has no illusion); Namyawaza son of Sutarna (Phar one who has no Hudson); Namyawaza son of Strama (Friar sch's governor in Ube-Namya Vaja (one whose name is prized or glorious); Rusmanys of Saruna-Ruci manya (who respects sentiments) satiya of Enisosi-Batya (truth); Subandu, a chief in S Palestine-Subandhu (good friend); Sumitta, an Egyptian officer Sumitra (good friend) or Su Medha (of good understanding); Sutarna (of Mushuna-Suta srna (son of the tumult of bettle) or Su tarna (a great protector); Sutana, son of Saratum of Akko-Su tana (a good assistant); Suwardate, a chief of Kelte-Svar dita (given by nashemis); Suwarmana; a chief of Lapana—dau-yaka (given by the heaven) Tenwatti, ruler of Lapana—dau-yakta (given by the heaven) Tuzbazu chief of Zilu-Turvasu, a name of the Mediterranean people); Vidya, chief of Askalon-Vidva (knowledge) Yasdata—Yasa data (given by fame—famous or Av Yaza data—given by his szerifice) Zirdamyasda, an

officer of Namyawaza = Iran Zrida myazda - Hridaya the heart), Zitrayara, a Syiian ruler=ch wise in (pretty lover), Zurasar = sura-sara (divine archer), ZSu-ratha (good charioteer), Amaya = A-māyā (free fron sion), Aksapa, a town in Palestine - Akshapata (an a Akshaya = indestructible, Sunama, = a town in Palestir nāma (well-named) Kassite (1756 – 1170 B C) of Samasa = Surva (the sun sagaraktı surıas = my rede by Surias), Marutas, the war god - Maiuts, Bugas, god bugas protection of Bugas) = Bhaga (Av. Buga, Phryg Slav Bogu), Burias, a god - Bhaia (supporter, Gk B North wind, Slav buia = storm, Burna-Burias the lord subjects, name of one Kassite kings, Lith bernas = se Sumalia, the name of the goddess = Su-mālya (fit for god lands), Suqamuna, the name of Nergal. - Su-kāmana wisher), Abirattas, the Kassite sixth king (1678 B C)=A (standing on a chariot), kara, the title of king = Kuiu, Su Su-jagat (easily moveable, possibly in connection with c Ariva (Arva) is a common first name of the Khatti-Mitar At Mohenjo-daro a few Alpine crania have been foun

an Alpine statue head and shoulder of man with oval facneck, prominent long nose, fleshy constitution, luxuiious wearing a fillet to keep in order the combed hair rou head, and a cotton painted shawl round his body statue head is almost similar, but wearing a plaited over the head and a heavy knot of hair on the At Halappa on one of the seals are depicted the mi procession from left to right of seven men of type wearing kilts and helmets The terracotta also show brachycephalic head with prominent nos face, short thick neck, fleshy lips, but the eyes are sor narrow At Tell Asmar of about 3000 B C vases with and lions have been found A green steatite vase con humped bull Two statue heads in limestone face of Alpine type, wearing plaited turban on the head, hav found There is also a basrelief of a bearded man of an

tured heads with hooked nose of Alpine type (Khatti) There.

tured heads with hooked nose of Alpine type (Khatti) There are amulets of goose crocodie (I L N Sept 12/1946)
Druhyn is a Semite tribe Druse Afghan Durans Arabic Druz a people of mid Syria Druse is a mixed Semite having some Alpine admixture. In Druse religion there are elements of Nature worship. It has been frequently asserted that the image of a calf is kept in a niche and traces of phallic and gynaecocratic worship have been observed among them. In the eastern Hauran, there are hill top shrines, containing each a black stone (meteorite) and these seem to perpetuate the pre Islamic Arabian cult including the sacrifice of animals, particultry goats. Women assemble in the Khalwas on the same time and join the men in religious functions. Divorce may be initiated by the wife (11 E B Druses).

Tribal (Transadeswas) Druhyna and Puris are creat fight.

Triksi (Trisadasyava) Druhyus and Purus are great fighters (6 46 8) The Bhrigus and the Druhyus allied with Turvasas and Matsyas for conquest (7 18, 6) The Anavas and The Druhyus in the Ten Tribes Confederacy War sgainst the Pancala Sudas (1900 B C) lost 6666 persons as dead (7 13 14) The Pakthas (7 18 7) in the same war are the Pasthus a 14) The Pakthas (7 18 7) in the same war are the Pasthus a tribe of the Afghans (Pakthas—Pukthan—Pathans) The Pathans like the Semites are tall, slim dolichocophals with prominent occiput, pretty long ellipsoid face, aquiline nose and thick beard, Paktha, Adhrigu (possibly Par Arudha) and Babhru (according to Puranas a descendant of Druhyu) separated from their friends were helped by Asvins (8 22, 10) Pakthas were settled between Kubha and Kurmu (7 18 7) Babbru helped the Rusamas possibly (Anava) and received from them and their king Rinanchaya four thousand cattle as a pre-sont (5 30 11 14) Durbyu king Arudha fought against Risbyaku Yuvanasya and his son Gandhara (1 126 7) being defeated settled in the northern mountainous country which detented settled in the northern mountainous country which was named after him (Vsyu P ch. 90 10). It seems that the Atris (5 40 g) who knew how to predict solar eclipses were mixed Alpines or Caspians. According to traditions, Atri is excluded from the only four original Brahman's clans Angiras Käsyapa, Vashishtha and Bhrigu (Santi P ch. 297 17) Atrin is a sorceror (1 88 10), doing mischief by his witcheraft. The Magi (Gk. magos. Skt. maga) the priestly tribe

PEOPLES 145

of Media, ware noted star-gazers and magicians. Atri might have originated from Median Atar (fire: Shirozah 1, 7), and Media was chiefly the place or Manda or Mada, a Cimmerian tribe. Babhru Atri is a composer (5, 30) and the name suggests some Semitic connection with the Babhru clan

Purus are Khatti hordes (Purusti Far Yast 111) Sargon undertook a compaign against Puiu-sh-khanda (Puru's share) by which Asia Minoi, the land of the Khatti, was known An allied language was Luish (14 E. B. Hittite) Luistan is found in W Iran $\sqrt{par} = to$ advance Skt pii = to bring over, para = far away, puras = before, Gk poros = a way, porthnos = ferry . Lat porta = gate, portus = harbour -to fill, Skt purna = full, pura - town, puru - exceeding. purusha = man, Gk polis = city, polas = much Lat plere = to fill, planus = full, plus = more, plabes (throng of) people, populus = people Khatti pir = house Khatti Puru = Kshatiiya horde In Avesta there are names like Pourushaspa (Puiu-Asva Yasna 9, 13 - Puru has the speed of a horse), Pourucista = Puru-Sistha = chief of the Purus Yasna 53, 3, Pulus spoke a strange language (purusu vidathe mridhra vācam 7,18,13) Aryans have well-developed secondary sexual characters, men are viille, wemen are graceful Men are energetic, women are active Females have pretty hemispherical breasts, broad hips and large ellipsoid pelvis. The society is pratriarchal Shepherds (gopa 1, 22, 18, I, 96, 8 Skt Gopa = village chief gostha-pati = the head of a clan S Slavic govado = herd, gospodor=ruler Aryan root of go is gu = to low, to sound Gk goos - outcry, lament, bo-us - ox Lat bo-are = to shout, bo-s =ox, Fr boeuf Ger Kuh, Av gao, O. Slavic govedo) The Aryans were a pastoral people They were also farmers Baby Gudea (2400 B C) styled himself as issakku (Ikshvaku). an agriculturist Agriculture engenders domestic life and fosters family harmony $\sqrt{\alpha}$ - to plough Gk ar-ein, Lat ar-are, Goth ar-jan, As er-ian-to plow. Eng arable, ear of corn Hence Lat ara = fire-altar culture means gaining livelihood, Hence ar may also mean to gain, Skt ara = spoke of a wheel Gk ar-menos = fitted, arthron = limb ar-thmos = counting, ar-ete - excellence ar-mus, ar-tus=limb; ar-s=skill. Goth ar-ms=arm Arva=

aristocrat; ar⇒to row Skt ar itra=rudder; Gk er essein= to row er-etmos-an oar Lith. ir ti⇔to row, Lat r emus-an oar As, oar row

Bharata was the son of Puru Dusyanta At this time Midland was liberated from the Alpine Haihaya domination as the Vithotras (Vithavyas) were driven away by the efforts of Ikshvaku Sagara and under Kasa Pratardhana. Turvasa and Puru clans became united and made Puru Dusyanta their chief It is said that Dusyanta was adopted by Turvasu Marutta. Dusyanta married romantically Sakuntals the pretty daughter of a Kusika Visyamitra descendant. Their son was Bharata who recovered the Paurava kingdom and extended its territory After him the whole country was called Bhiratayarsa. Bharat had nine children by three wives. He suspected them business had him distinct by life which it is suspected that to be illegitimate; or possibly due to court intrigues they retired from military and administrative duies and adopted priesthood. They are the Asyamedha Bharata, composer of 5 27 Devevata Bharata and Devasravas Bharata 8 28. Kusika Vesyamitras became the priests of the Bharatas Thus deprived of a successor Bharata appealed to Alpine Vaisya Vaisali king Nansanta son of Marutta, to give him an adopted son Marutta to please his friend and ally gave him Vidathin Bharadyāja, son of Bharadyāja, an illegitimate issue of their priestly family and who was brought up by Marruttas, as the adopted son of Bharata Usia had three sons—Samvarta (author of, × 172) Brihaspati (× 71—72) and Ucathya (9 50; 52) Brihaspati's son Samyu is the author of 6 41; 46 48. Brihaspati's daughter Romasa is the composer of 1 126-7 Samvarta became the priest of Valsali king Marutta Ucathya's wife was Mainata Mamata had a son Dirghatamas who was known as Mamateya (4 4 13) Mamateya Dirghatamas (1 160.6) was a great composer and he officiated as the high priest in the adoption ceremony of Vidathin Bharadvāja to Bharata (1700 B C) Mamata seduced by Ucathya's brother Brihaspati, and their illegitimate offspring being deserted by both the parents was brought up by Marutta. Bidathin Bharadvaja was the son of Bharadvaja Bidathin Bharadvaja did not succeed Bharata, but his son Vititha And his other five sons-Suhotra (composer of 6, 31 32) Sunahotra (6, 88-84).

PEOPLES 147

Nara (6, 35-36), Garga (6, 47) and Rijisvan (6, 49, 52) became Angiras priests (5, 29, 11) Bharata's successors were Bharatas who had Visvāmitras as their priests (3, 53, 12) Naia's son was Narya (1, 112 9) It is very likely that Dirghatamas was not blind. For a blind man could not officiate as a priest Moreover Direhatamas is called a charioteer (sarathi) of surging waters (1, 158, 6), which means he was a navigator His brother Dirghasravas was a trader (vanij) and his son Kakshivan. a great poet (1, 112, 11) Kakshivant praised Bhavya (a Phoenician) who dwells on the bank of the Sindhu for his presenting to him many valuable gifts (1, 128, 1-5) Kakshivant's daughter Ghosha Kakshivati is the composer of x, 39, 46 Ghoshā was married to Aijuna (-white) whom her father secured for her as her husband (1, 122, 5) Other descendants were Kākshivati (x, 169), Sukriti Kākshivati (x, 131) Vititha Bharata married Sunanda and their son was Bhumanyu Vaidathina Rijisvan conquered the settlements of Pipru (Babylonians) 1. 5. 15), but the Vangrida (Zaranka) resisted (1, 53, 8) Bhumanyu married Vijayā and their son was Suhotra Suhotra married Ikshvaku pincess Suvarnā (Su-excallent, varna= colour \sqrt{Var. skt vri=to cover, surround. vaina originally covering · var-man - armour Gk Lat. or-naie = to adorn (cover), uel-lus = fleece As. wear, ornament), and their son was Hastin (1600 B C) who founded Hastinapur Hastin married Sudevi and they were succeeded by Ajamiia (4, 44, 7), Drimira and Purumira (5, 61, 9) Purumira's priest was Syāvasvas Atreya Syāvasva was also the priest of Taranta and Darbha Rathaviti (5, 61, 9, 19) Taranta's wife was young and ever smiling (Yuvatir mamandushi=joyous-spirted 5, 61, 9) and the lovely spouse warms the gentleman (bhadra jana) with fire (agnitapa 5, 61, 4). And many a woman is more firm and better than men who lack faith in gods and who know no charity (5, 61, 6)

Ajamira seems to be a mixed Dacian (Divo-dasa, Sudasa) clan Assyrian inscriptions mention Azmir peoples in Zagros Range There is a town Azimii in N Morocco after a people Azim is a Semitic name There is an Azmeri tribe in Abysynnia Panini in his Ganapatha (4, 1, 173) mentions Ajamira as a tribe in N India with Salvas and Madras Ajamira

(4 44 6) had three wives-(or rather consisted of 3 clans)-Keemi, Nalim and Dhumini Through Kesmi was born Kanva (√ Kan-to ring to sing; Kanva-singer chanter Chanda-meter
Lat. cano-to chant, Can-ere-to sing Gk Kan-ake-ringing
sound As. han-a-a cock (singer) Eng chant canto) Kanvas (1 14, 2; 1, 39 9) son was Medhatithi (8, 8, 20) Kanva Meditithi adopted priesthood to avoid succession contests. Eighth Mandala of the Rigveda is mostly the composition of Kanya Medatithi s family Through Dhumini Ajamira had a son, Brihadvasu, the founder of South Pancala Dynasty whose descendants Brahmadattas of Jatakas ruled Kiss in 7th century B C Alamira (1:00 B C) through Nalini had Nila, the founder of the famous North Pinckla Dynasty the heroic deeds and magnanimity of whose kings are mentioned predominantly in the Rigvedic chants. This has given a reliable basis of the chronological evaluation of the Rigyedic Rights and their hymns. Nils 5 son was Susanti, Susanti's son was Puru janu (Rv Purushanti 9 58 3) His son Riksha, Riksha had five sons-Mudgala Srinjaya, Brihadishu, Yavinara and Kampilya and after these five brothers, the territory was known as Pancala Mudgalas eldest son Brahmistha succeeded his father to the Panchala throne. Other sons of Mudgala and their descendants adopted priesthood and were known as Kautha Maud galya Brahmins and affiliated themselves to Brahmistha son was Vadhrysva Vadhryasva worshipped Sarasvati (6 61, 1 possibly lived on her banks). Though he supported his clans $(\times 69 9)$ he fought valually against the enemies as well as against his kinsmen $(\times 69 13)$ Vadhryasva married Menaka and they had a son Divodasa who wiped out his father's debts to Panis by killing them (6, 61 1) Their daughter Ahalya was married to Angirasa Saradvant Gautama their son was Satananda who became the priest of Siradvaja Janaka (Ram. 1, 50 6) Saradvant Gautama divorced his wife Ahalya for her loose morals especially far her adultery with one Indra-But as Rama, the crown prince of Avodhya honoured her by receiving her hospitality she being the sister of his father's friend and ally Athithigra Divodes, she was taken back by her husband. Their descendants are Satyadhri an archer Kripa and Kripi married to Drona their son, Asvathaman

alliance with Dasaratha defeated Sambara ın (Cimbri), 'Yadus (Alpines) and Turvasus 9, 61, 2) Atithigva Divodasa crushed Vetasu (Veta, an outcaste tribe found in Kulu of mixed Caspian origin) and Tugra Kangra and the help and benefit of Tun (Tugrans=Turks) with (Tanks) Sambara, Gunjus (Gunjial or Kanju an agricultural tribe in Shahapur) were crushed (6, 26, 4) Divodasa overthrew Karanja (Kanjar, a vagrant tribe in the Punjab) and Parni a Saka Parthian tribe), Parnaya (Perna, called perhaps for leaf-wearing in their girdle, a vagrant tribe of the Punjab), and dispossesed them of their land (×, 48, 8) Divodās's son was Indrota (8, 68, 10) Mitrayu Divodāsā (bright Dacian) fought Brishaya (Epthalite Barsileens, a Saka tribe Basilees - Skt Vrishala 6, 61, 1) Indrota Mitrayu's son was Maitreya Somaka His eldest son Srinjaya (4, 15, 4 Zarank, Sarangos) succeeded him. In a battle on the river Harıyupıya (Harıob) Parthava (Parthian) Abbayavartın Chayaman overthrew the Varasikha (a Caspian clan) and defeated the vanguard of the Vrichivans (Villivants) and their rear fled frightened On the Yavyavati (Zhob) three thousand mailed Vrichivans went to their destruction, before their arrows like bursting vessels Turvasas were taken prisoners by Srinjaya, and Viichivans by the Parthava (Prithus and Parsus together 7, 3, 3, Parthians and Peisians) Dairavata Abhaya Vartın Chayamana gave Bharadvaja two wagon loads of damsels and twenty oxen (6, 27, 5-8) Srınjaya's son was Cyavana Pancajana (Cyavana ×, 69, 5, 6) Sudās son of Pijavana, (7, 18, 23) extended his dominion over South Panchāla and Dirmira territories Other sons of Srinjaya became Srinjaya Brahmins Famous Sudās (good Dacian) was the son of Cyavana Pijavana Sudas, known also as Maudgalya, married Indrasena, the heroic and romantic daughter of Nala and Damayanti (MBh 1, 212, 4) and thereby secured the military aid of Southern Kosalas of which Nala was the king and of the Vidarbhas (Alpines) of whom the Damayanti was After Ikshvaku Dāsarathi Rama's death Ayodhya kingdom was spilt up into two The Northern part was ruled by Lava, possibly Rama's son, with Sravasti as his capital Lava's great grandson was Rituparna, friend of Nala.

Kusa (possibly the Kassites) occupied southern parts with Kusasthali in the Vindhya Hills as the cpartal (Vayu P ch 88) Kusas son was Atithi his son Nishada whose son was Nala. Nalas daughter was Indrasens (M Bh 8 57) who was married to Mandgalya Sadās Indrasenā was a good charioteer and took parts in daring raids and cattle lifting "When Mudgalini took parts in taking takes and consistent many (the queen of the Maudgalyas) became a charioteer and con quered many her dress was squared by the wind Indrasen entered into enemy a camp and brought many cattle herself entered into enemy's camp and brought many cattle nersell remaining the charioteer (× 102, 2). Though thus forsaken (she accomplished it alone) she joined her husband with proud swellen breasts (× 102, 11). To offer resistance to Budžas a aggressive imperialism many tribes made a joint effort and fought against Sudžis and his Puru ally Tritsu who had a Visyāmitra descendant as their priest. The confi deracy consisted of (1) Simyu (Simeon - an Israelite tribe, Simeon and his brother Levi massacred the males of Shechem to avenge the violation of their sister Dinah by Shechen. Their father Jacob condemned their ferocity and cursed them to be scattered (Gen 34-44) It may be conjectured that Dinah represents Dana (Danaya-Caspian) tribe and it was supported by Simeon tribe against the aggression of the Canaanites (also Ommeri Caspians) who drove them out between 15 to 18 century B C; mixed Semité) (2) Turvasa and (3) Matsya (Micditerraneans); (4) Bhrgus (Bryges=Phryge=Casp Phrygnans); (5) Druhyus (Druses Duran Semites); (6) Pakthas (Pakthan-Pathan-Semites); (7) Bhalanas (Bhalikas Sakas mixed Caspians); (8) Alinas (Palae Alpine tribe Amils of Sind-Lohanas - Chinese Loi) (9) Sivas (Ausinara Sibi-Palae Alpines) (10) Vishinina Bisnoi tribe in Bikaner and Jodhpur mixed Mongoloid Palae-Alpines) (11) Vaikarna (Vehrkana Pargs 1, 12; Varkana of Darius Hyrcanians of the Greeks in Astarabad Caspians (12) Kavasha (Allusha a Sudra tribe Chudes (18) Anu (Palae-Alpine); (14) Puru (Samburana Rhatti-Kelt) (16) Bheda (Veddah) (16) Ajas possibly the the Itahyaku clan named after Aja father of Dasaratha ; 1475 B C There is also a West African Aja Negro tribe with Ewe speech) (17) Sigrus (a Mongoloid tribe living in upper Indus in Baltistan where a tributary of the

Indus is named after them as Shigar, and there is a locality called Shigri), (18) Yakshus (a Tank tribe), (19) Sambara' Cimbri Monkhmer, Sabaia -7, 18, 5-20) This federacy war took place about 1375 B C Vasishthas were the priests of the confederates and Visvāmitias of Sudas (good Dacian - Dahae) and his ally Tritsu (3, 33, 12) And before the confederates could unite. Sudas struck at his enemies one by one and scattered them like autumn leaves. At first the confederates were successful Finding this unfavourable turn of war, Visvāmitras found it opportune to desert Sudās and take the Vasishthas in their turn became the sides of the enemies priests of Sudis who was successful to cross the Paiushni (Ravi) But Simyus (1, 100, 18) however trying to cross it got themselves drowned in its iapids (7, 18 5). Turvasas, Matsyas, Yakshus, Bhrigus Druhyus, Pakthas (Semites), Bhalanas, Alinas, Sivas and Vishanins however united (7, 18, 6-7) In order to make the Paiushni fordable, they dug a channel and elected a dam, but the dam burst while the confederates were trying to cross it and many of them got themselves diowned Even the swiftest could not escape (7, 13, 8, 9) remaining Vaikarnas (Varkāna Caspians) were scattered as easily as grass is cut (7, 18, 11) Kavashas (composer of x, 33) and Druhyus were drowned (7, 18, 12). Anava's possessions were given to Tritsus But the Puius escaped (7, 13, 13) Anavas and Druhyus seeking victory lost more than 6000 men (7, 18, 14) Sudas got all their possessions (7, 18, 17) Then even the fierce Bheda (Veddah) submitted, but they were deprived of all their possessions on the Yamuna Ajas (Ikshvakus), Sigius (Signis in upper Indus mixed Mongoloids) and Yakshus (Tajiks) brought tributes of hoises Sambaias (Cimbri) lost their settlements (7, 18, 18-20) And Sudās in gratitude of victory gave 200 cattle and two chariots yoked with horses to draw them to Vasishtha, his son Satyatu (Sakti) and his son Parasaia (7, 18, 21-22), borne by Sakti's Adrisanti For many years the Paurava king Samvarana took refuge on the Sindhu But with the aid of Kamboja Kurus and Sakti Vasishths he secured partly the Paurava kingdom and Tapati Vaivasvati (Mediterranean) as his wife But the Pancāla power began to decline after Sudās, though Suc

son Sahadeva and Sahadeva's son Somaka are praised (4 15 8) for their generous gifts by Vamadevas

In the main branch of the Puru line there was a petty chief Durgaha The aggression of the Pancalas shrunk the dominion of the mam Purus. Duagaha lived about 1500 B C contemporary of Pincila Bhrimyasva, father of Mudgala Durgaha's son was Girikshit Purukutsa was made a prisoner Atithigva Divodasa and Trasadasyu (terror to the Dasse) were contemporaries and allies (1 112, 14, 7 19 3) He was also the friend and ally of Ajeya Dasaratha of Ayodhyl who fought jointly against the Sambaras (Ram 2, 9 11 18) Purukutsa s son Trasadasyu gave Sobhari Kanva a gift of fifty damsels (1, 19 36) Syavasva Atreys also became the priest of Trasadasyu (8 36 7) Trasadasyn was contemporary with another Puru chief Asyamedha. Parsavah (8 6 47 Parsa is Khatti Puru clan after whom Fars and Persia have been named. Here Parsu. Parsa, and Yadavas-Yutiyas are found together Behi 8 40) were harassing Kuru sravana of Kamboja descent who was suffering privations and exhaustion (× 38 2-4) Trikshi became powerful (8 23 7) Pancila Divodisa s son (1462 B C) Indrota, Asyamedha's son Putakratu and Riksha's son were con temporaries (8, 57 (68) 15-17), and these Pauravas made generous gifts to Prioyamedha Putakratu s son Dasyave-vrika (wolf to the Dasas) gave Praskanva a hundred assess, a hundred fleecy sheep and a hundred slaves 8 55 (V 8, 8) Kuru Ristisena (1125 B O) had two sons—Devapi Ristisena and Santanu. Santanu became the king But there was a drought. And Devapi made a yajna (√yaj-to sacrifice worship Gk ag 108 ag 108 holy; Av yasnai to secure rain (× 93 3,7-8)
Trikas a descendant was Samvarana who was defeated by

Trike as descendant was Samvarana who was defeated by Sudasa (1985 B C) and who returned to the Sindhu But it is said through Sakti Vasishthas aid he recovered his Paurava kingdom and Vasishthas it Tapati as his wife Perhaps Samvarana and Vasisthas aided the conquest of the Kurus and Krivis Samvarana a successors were Kurus. Kurus were great conquerors They forced their way through the Punjab overthrew the kingdom of the Panellas and their kingdom extended to Kuruskhetra and later to Praying The allied tribe of Kurus Krivi became powerful (8 22, 12) But it was harassed (8, 20 24) and

overthrown (8, 51 (V 3), 8), possibly by the Kurus Kuru is a tribal name otherwise there would have been no name like Kurusi avana (glory to the Kurus) who was harassed by the \times , 32, 2-4) Cyrus (558 529 BC), the founder Parsas (Parsis of the Persian empire, was called Kurush Gk Kuros, Baby Kurash, Heb Koresh, Lat Cyrus (14 E B Cyrus) Cyrus was the father and son of Cambyses (Iran Kambujiya = Kambojas of Rājapuram (MBh 7, 4, 5, S W of Punach) Kamboja, a Saka tribe, possibly mixed which with other Caspian clans through Tibet, settled in Mekong Valley, known after them as Cambodia (Malay Kamboja) Uttarakuru is the Trans-Himalayan and Trans-Caspian region, an early settlement of the Kurus mean obstruction (kārā, kārā-griha= might Karakaram prison) to the Kurus, as Karpathian Mts (Ger Karpathan. Gk karpates) In Ganapātha (4, 2, 133), Gandhāra, Kamboja, Malva and Kuru tribes are put $\sqrt{\text{kar}} = \text{rough}$ Skt kar-anka = hardkar-kar-a = hard.shell=skull, Gk kar-on=a nut, ker-as=a horn, kar-k-inos= crab. Lat car-ma=nut-shell car-nu=a horn, can-cer=a crab. Kuru might have originated from √ kar or kal = to move, speed, Skt car, cal = to move car-ana = feet, kal = to impel, kalaha = quarrel, Gk bo-kol-as = a cattle-driver, kel-as = a lacer, kol os = axis (of revolution), Lat. cur-rare = to run, karr = cart Or Kuru has originated from √ kar=to make, Skt kri=to make, karman = work, action, Gk kr-enein = to complete, kre-on = ruler: Lat cre-are = to create The dynasty of Cyrus was called H(s)aka-manusya (O Ir hakhāmani = Achaemenidae = of Saka descent) Darius in his Susa palace inscription called himself a Parsa—of Puru Khatti origin, and some where else as an Airya It seems therefore that the Achaemenidae were mixed Saka Kuru Kāmbojas with Alpine Khatti Purus (who became known as Parsa) and some Aryan stocks like Luites, Mitannis and others In Mamaseni region in Fars 50 rock show regular Khattı type and features' as later basreliefs \mathbf{of} Achaemenides (but the the pigtail and up-turned toed \mathbf{At} shaes) Persepolis a monumental basrelief of 489 B \mathbf{c} has been unearthed. Darius (Darayavau - Skt Dharayavasu = prosperous) is seated in a flowing robe on a beautiful wrought chair, his sandled feet

resting on a pedestal, holding in his right hand a sceptre and in the other a blossomed lotus Behind Darius is his son Xerxes (Kshatra arsha-glory of the Khatras or Khattis) in a standing posture in a flowing robe And behind Xerxes stands possibly the food taster And behind them the bearer of the royal bow sword and mace and two body guards. Two incense burners are carven in front of Darius. A noble petitioner robed in palamas and a shirt bows before Darius his right hand at his mouth in a gesture of respect and appeal and the left hand holding a sword. Behind the pettitioner are his lance-bearer and his companion the latter carrying a metal globular recept-scle. They have broad head oval face but with high bridged equiline nose rich curled beard and bobbed hair failing behind their caps on their head. The scabbord of the sword hanging from the waist band of the bearer of the royal bow is decorated. with lotus blossoms, griffins ibexes and a ram a head (I L N Aug 22, 1986) Darius calls himself a Parsa-adam Parsa Darius inscription on the sucient Suez canel-La stelle de Chaloup) Parsa - Parsu (8 6 48 Parsava (1 105 8) Kuru married Yadavi (Alpine) Subhang and they had five sons of which Sudhanyan Jahnu and Parikshita are important Kuru s descendants are known as Kauravas. Parikshita ascended the throne, His son was Janamenjaya His son Bhimasena. Bhimasena was conquered by Suratha, grandson of Jahnu. Descendants of Jahnu are known as Jahnayi (1, 115 19; 3, 58, 6) Jahnus daughter was called Jahnavi after her for the Ganga Thus Kuru kingdom went to Surathas son Viduratha and his descendants Sudhanyan a son was Suhotra Suhotra a son was Ovavana, Cyayana s son was Krita Krita a son Visruta, Visruta's son Vasu. Vasu (1220 B 0) conquered the Yadava kingdom Cedi. It is said that about 1750 B 0 Yadava Jayamagha captured a girl before the birth of his son Yidarbha (Berar) and Yidharva was married to her though much older than himself And they had three sons-Kratha Bhima, Kaisila and Lompada. Kaisika s son was Ceds who founded the Chedi dynasty Vasu gave his son Kusa the kingdom of Chedi Kasu Caidya Cedaya (85,3739) are praised for their generosity by Brahmatithi Kanva It is very likely that the later Chedi kings are praised for in the Yadava Cedi time Kanvas did not come into existence Vasus

PEOPLES 155

eldest son Brihadratha became the founder of the famous Magadha dynasty. Navavāstra Brihadratha (10, 49, 6) killed the Dāsas easily (1, 36, 18) Thus in Puru Line, we find 3 racial stocks, ruling successively Purus (Khatti Kelts) were overthrown by Ajamiras, possibly of Caspian Dacian (Dāsa = Dahe)

origin, and they in tuin by Kurus

Ikshvāku (× 60, 4) is Gk Akaios, Lat Achoea, Eng Achean, Khatti Ahkhiyawa, Egypt Akhaivasha, Baby. Issaku of Gudea, Ger Ingovones Achaeans prided to call themselves as sackers cities, Vedic Purandara, an epithet of Indra. From the Valdai plateau where the Aryans originated, Ikshvāku through the Volga basin, Merv (Meru), Oxus (Akshu) and Kailasa Mounts (Pamirs) through the Sarayu defile reached Ayodhya From the Pamirs they reached the lower Sarayu through its upper gorges, known in ancient times as Ikshumati, and at present as the Kali which is also the pilgrims' loute to Kailisa peaks and Manosalavar Lakes Just below the junction of the upper affluents of the Oxus, the Pamil River and Aksu (Murghab Aksu and Oxus are corrupt forms of Ikshvaku), there is a very ancient settlement, the remains of a stone encampments and now a fort at Ishkashim at the elevation of 8560 feet Ishkashim also betrays its Ikshvaku origin There are still agriculturists at the lower Oxus region at the elevation. of 7000 feet Here the Tajiks with Aryan features (Tuji = Tocharians-Takshaka Nagas) cultivate land and fruits In Surkhab (Waksh = Ikshvaku) and in Darwoz valleys the summer is delightful and enjoys Alpine scenery Here maple, ash, pistacio, junifer grow freely in mountain forests, wild vines and pomegranates are found. Beet 100t and kohl rabi and other vegetables, barley and wheat are widely cultivated. The sun flower decorates every village garden. The houses are generally two storied and built of stone with straw roof Every house possesses its staircase, its well and cisterns for irrigation The Aryan Tajıks of this northern section seem to be well provided with most of the comforts, if not the luxuries of life (11 EB. Oxus) Some of the Tajiks and Uzbeg people in the Oxus basin at Ishkashim, in Wakhan valley, show fine dolichocephalic feature with blue eyes Through the Wakham valley lies the easiest approach to Pamir. Comparatively easy passes, used

throughout the year by the Kirghiz (Alpine Khazars) and others. lead southwards accross the Hindukush to Chitral and Kunud. that is to the upper Indus basin. This route has further the immense advantage over those of Turkestan and Persia that it nearly everywhere traverses cultivated and inhabited lands and avoids the great waterless deserts (Elsses Reclus-Asiatic Russia P 288) Through the Dauligiri Pass one can easily enter into Nepal. Through the Kali Gandak defiles many Nepalese and Tibetans for trading purposes easily enter into Tibetan plateau or descend into Nepal as Syen Hedin did it himself And Syen Hedin says that by means of a canal cut through Kerala (15 292 ft.) the Brahmaputra (Tsangpo) might be turned into the Ganges thus swelling its volume (Sven Hedin-Trans Himalaya Ch. 41. vol. IL P 79) Ikshvaku might have been derived from Jakto pierce to be sharp to be quick. Skt as - to pervade to attain asya = a (swift) horse Gk. ak ros = pointed ak-on - javelin ip-pos=horse Lat ac us=needle eq uus=horse √ak=to see Skt ak sha eve ik sh to see Gk. ops is sight oph thalmos -eve Lat. oc ulus -eye. Russ. ok-o -eye; Goth. aug-o = eye √ vak = to cry out, speak Skt. vas = to cry (animal s) vac - to speak vaca-s, vikya-speech Gk, eko-echo Lat. vox -So Ikshvaku might mean a quick or sharp-speaker thunderer or speaker with vision. It may be the Avestan Akayadha (Farv Yast, 127) Vasishthas (Vahistahe, Farv Yast 111—excellent holiness Vahistoisti Gatha Vazista fire Farg 19 88-40) were the priests of the Ikshvakus. Vasistha was a fire priest Seventh Mandala of Rigveda is the composition of the Vasisthas. Mandhatara (Mandhatar) was Kshastra pats. lord of lands (1, 112, 18) Mandhatar is the leader in making sacrifices to Agni (8 89 8) We have sung anew praise to Indra Agni, as sung our ancestors (Pitrivas) Angirasas and Mandhatar (8 40 12) This indicates that Mandhatar lived long before the poet a Kanva. Mandhatar was the son of Yuvanasya and lived about 1762 BC Mandhatar married Vindumati the eldest daughter of Yadaya Sasavindu son of Chitraratha. dhatri with Vindumati had three sons-Purukutsa Ambarisa and Muchkundu Mandhatar was adventurous and enterprising Mandhatar with his valuant sone and possibly also with the all ance of the Yadayas overran Kanyakubis and dismembered Puru

kingdom and then extended his conquest up to Narmadā where in alliance with Karkata Nāgas (Vishnu P 4, 3, 6-12), defeated the Haihaya king Sahanja, captured their fortified town Mahismati on the rocky island on the Narmadā, and renamed it Māndhātā or Onkāranātha, a great pilgrimage centre Mandhātār's son was called Purukutsa, (6, 20, 10) for he brought disgrace (kuts=Lith kussinu=revile $\sqrt{\text{kat}}$ cat, catta (\times , 155, 1)= frighten away Gk. kot-yle=a hollow Goth heth-jo=a place of shelter) to the Purus whose kingdom was overthrown Ambarisha is mentioned (1,100,17) but there is no certainty whether it was this Ikshvāku. There was another Ambarisha, son of Nābhāga (1675 BC) One Nabhāka (8, 40, 5, 8, 41, 2) is called a man of olden days, it is likely it is the Puranic Ikshvāku Nābhāga. Purukutsa married a Haihaya princesss Narmadā who became the mother of Trasadasyu made some grants of lands to the Purus (4, 38, 1) Trsadasyu's descendant Trivrishan's (Tridhanvan's) son is Tryaruna (Trayyāruna 5, 27, 1-3) At this time there was a war of succession in Ayodhya advantage of this Karkata Nāgas (Caspians) became independent and they occupied Mahismati on the Narmada But the Haihaya king Kritaviiya (/ Kar Skt kri=to make, kar-man=action, krita-work done Gk kre-on=ruler, Lat cre-are-to create Lat vir, uir=man, viri-lis, uiri-les=virility Gk eros=hero Avestan vira = a hero, Skt vira = heio, virya = semen, energy. Krita-Virya = executive power) Arjuna (1837 B C) captured Mahismati from Caspian Karkata Nagas (MBH 8, 144) and advancing over the prostrate Paurava kingdom attacked Kanyakubja and raided Ayodhyā Jamadagni (3, 62, 18 Jamadagnis 3, 52, 16), brother-in-law of Kānyakubja ruler Visvaratha (Visvāmitra), a renowned archer was killed by Arjuna's (= white) sons Bhrigu (Phrygian) Jamadagni's son Rāma (x, 93, 4—Rāma Asura Parasu Rāma for he always carried with him a doublebladed axe-Parasu; Gk pelekus, Assyrian pillaku, which was the sacred battle-axe of the Mycenaeans, perhaps of all the Caspians) killed with his axe Kritavirya Arjuna Visvaratha, Kanyakubja king, son and successor of Kausika (Kassite), finding resistance useless, adopted priesthood under the name of Visvāmitra Protracted war and devastating raids by the Haihayas caused friction between Trayyaruna and

his son Satyavrata Trisanku. Trisanku was married to a V_{1} darbbha (Alpine) princess. So he advocated reconciliation Travvirung at the instigation of his priest with the Haihavas Devara Vasistha banished his son Satyavrata Visvamitra helped Satyavrata to regain the Ayodhya throne overcoming the opposition of Devaral Vasistha and became the priest-minister On Satvayrata Trisanku s death his son Harischandra was put on the Ayodhya throne by Visvamitra. But Harischandra soon after dispensed with the service of Visvamitra. revolts engendered by Visyamitra Harischandra not only lost the throne, but he had to live the life of an exile with his wife and child However by reconciling Visvamitra and his cliques Haris chandra regained his kingdom and throne Harischandra was succeeded by his son Rohidasva (Rohitasva × 7 3) It is mentioned (Art Br 7 13) that Ikshvaku Harischandra had no son And he vowed to Varuna that if he would have children, he would offer the first-born to him. But when Robits was born he hesitated to sacrifice him And Robits purchased with a hundred cattle Sunasepa Ajigarti from his destitute father Augarta to sacrifice him to Varuna in his place Augarta and Jamadigni were the sons of Richika and Satyavati sister of Visylmitra. He was bound And Sunasepa prayed to gods (1, 24) and one by one all his bonds (pasam 1 24 15 / pakto bind fasten fix hold fast Skt pas-to bind pasa-a fetter Gk peg nimi = I fasten Goth, fah-an - to fasten) loosened Sunssepa was adopted by Visvamitra as his son and was named Devarata (Devavata 3 28 2-3) Human sacrifice is in Vedic literature It was possibly a symbolic offering Gathins (171) is the Pur Kausika Gadhi In Zagros there

Githina (171) is the Pur Kausika Gadhi In Zagros Range in Babylonan and Assyrian times there were Gutaean and Cossaei (Kassite) tribes (14 EB Persia) Upper Tigris was occupied by Gudi (Kurds, called by the Khattis of 1370 B O as Gurda) and the kindred tribe Kassu (Puranic Kusika, Kassa-Kassites (14 E.B Kurdistan) Mitanni Aryans were so powerful that Egyptian monarchy for centuries to secure their power feit it necessary to obtain Mitanni princesses as queens, and thus their military alliance. For Dasarathay and another Tadukhippa Amenophis III sent an ambassador Mani, the bearer of presents and a royal letter What I send thee is

PEOPLES - 159

naught, but if thou grantest me the wife I desire, piesents will follow Dasaratha's daughter set out with the ambassador. accompanied by a few hundred Mitanni ladies with a chapel for the worship of her gods Hei father wrote: A great friendship united thy sire with me. Now I shall feel greater Thus practically Egyptian affection for thee, his son became Mitannian blood and m Matiani occupied Azerbijan even in Alexander's time (325 B. C.) and Lake Urumiya was known as L Matianus from the settlements of the Mitannis there Mitanni (Mitajnii, 3, 59, 3, 6, 32, 3) is a compound word for Mitia (friendly allied) and anika - forces \sqrt{mit} = to exchange Skt mith-as= reciperocally, mit-ra-friend, mith-una = sexual union Mithra = friendly god, Vedic Mitra Goth mis-so = reciprocally. /ar-to gain Skt. at a = spoke of wheel, ari = enemy; anika = army or forces Gk ar-menos = fitted Lat ar-mus = arms Goth ar-ms = arms, Gadhi, Gudea and Gutean might have been derived from / gat-to seize, Skt gadhā-club, gādhā =greed, gāthā = poetry, gāthin = singei. Gk kand-anein = to grasp, Lat praeda = prey, booty, Goth. bi-gat-an = to find, As git-an = to get From Gadadhara (Hercules), the wielder of the club, and therefore given of power and goods, German Goth Eng god might have been derived Gadhi of Kanya Kubja seems to of mixed Gudea (Gudi=Kuids Goths), Mitannis and Kassite origin He is known also as Kusika (Kasa =Kassite) Gāthina (1, 7 1 singer) It seems that the Gādhi people came with the Kāsis (Kassites) and were known as Kausikas (1, 10, 11) Like the Gudea people (Pātesi · Skt. pati - lord, isa = lord, Patisa = overloid) in Babylonia, the Gādhic people were also priest-kings However in Kanyakubja they have played not very important parts except Iksvaku Satyaviata Trisanku was put on the throne by Gadhi's son Visvamitra, displacing the services of Vasisthas who were their hereditary priests and was the king-maker of Trisanku's son Harishcandra. and Visvamitra's Gāyatri hymn (3, 62, 10) which is very similar to that of Akhen-Aton's Aten cult The incursions of the Kāsis (Kassites) as spear-heads into the Gangetic valley (Kāsi) and Kusika Gadhis as rear guards in Kanyakubiya overthrew mighty kingdoms and created great racial movements.

The Anava kingdom of Usinara Sibi, extending from the Punjabto Magadha, was split up into two parts the central portion being occupied by the Kusika Gadhis and Lasas about 1875 Being occupied by the Austra Sadins and Assas about 1870 B O The northern parts by the Caspian Yaudheyas Madras Krimis, Ambasthas Sauviras and Keykayas. The Puru kingdom which bore the brunt of the war was practically wiped out for centuries The Haihayas advanting over the prostrate Paurava territory attacked the Kasi kingdom and kept it under their yoke for more than a century and half (1900-1750 B C) Before the onslaught of the Hathayas Kanyakubia kingdom disappeared, about 1835 B C and Gadhi s son Visvaratha became a priest under the name of Visvamitra. The shock was so great that even the ancient Ikshvaku throne was shaking to its foundation from the time of Satyavrata Trisanku (18 5 B C) to the time of Sagara (1725 B C) who secured it by driving out the Haihayas out of the Midland in alliance with the Kasi king Pratardhana. This gave the Turyssus and their ally the Purus to rise again under the ladership of Dusyanta who also fortified his position by marrying Sakuntalia a girl of powerful priestly Visyamitra family After their son Bharata (1700 B C) Bharatavarsa has been named. Kauska Gadh in order to strengthen his position gave his daughter Satyavati to the famous archer Bhargava (Bryges) Richika Their son was Jamadagni (3 68 15-16) a reputed archer and warrior; and his son was Rius who knew how to fight valuantly with his axe (parasu Gk. pelekys Assyrian pillaku) But this availed nothing As a ruling power Gadhi family disappeared and their kingdom vanished. After two centuries it was incorporated in the rising Puru domain That adorable Savitar bright god (18) supreme wisdom which stimulates our intellect (3, 62, 10) This seems to have been the hymn composed by Vivamira Gathina him self as his nephew and contemporary Jamadagni is men tioned in 3, 62 18. Rigredio Third Book is the composition of the Visyamitras. There is a Gaddi tribe in Chamba and Kangra (Gaderan) divided into Brahmins Khatris and Rajputs. The men are well built, tall light-coloured dolicoclaphals; women are comely fond of dancing and singing Divorce among the Gaddis is permitted by mutual concent. Widow marriage

is customary. But if the widow remains in her deceased husband's house, wears a red Sarı in the name of hearth or

axe (darat), her child born inherits the property

Amura (7, 61, 5) is the Assyrian Amurru (ideographically Martu), Egyptian Amar, Pur Amara and the Bib Amorite (11. 14 E B Amorite) Amara is derived from √mar- to glind. kill, die Skt mri=to die; mrita-dead, calcined, mara=mortal; amara = immortal, maitya (1, 19, 2, 1, 36, 4) = mortal, amura (4, 4, 12) = immortal, Gk mar-einen = to withor: amortos = immortal, Lat mars - death, mar-cere = to wither, morbus = disease Teut. mara = demon (mare in night mare) = O Sl mora = witch, demon = Ir mari-gaim goblin queen = Buddhist mara (Av 6, 193) VKam or Vham = to bend Skt kmar = to be crooked, kshama = benevolent, kshama - to forgive, Gk. kam-ara = vault; Lat cam-era = vault, cam-urus = crooked. As, hamm = hem, the border \(\sqrt{rab}, \lab = \text{to seize}, \) to be energetic, Skt Rabi = the furious sun, Ribhu, the solar deity which regulates the differences between the lunar and solar year by 12 intercalary days Gk, elab-on = to take, Lat. iab-ere = to rage, rob-ur=strength, labar-toil, Lith loba-work Russ. rab-ota =toil Tuji (6, 26, 4) is the Tajik of Afghanistan, Iran and the Pamir region, Tushara and Takshaka Nagas of the - Puranas, the Tocharians of the Greeks, speaking an Aryan tongue of centum variety Quite a number of the Tajiks are still found who are tall (1 M, 68), long-headed, blue-eyed, long-slender-nosed, flaxen-haired But majority of them are mixed with Alpines Mrigaya (4, 16, 13, 8, 3, 9) is the Iranian Margu, Margians of the Greeks, on the liver Mergus (Murghab), inhabiting the oasis of Merv Pratardanih (6. 26. 8) are the sons Vatsa and Garga, - of Kası king Pratardhana (1725 B C) His father was Divodasa, who was defeated by the Haihayas who had been ruling Kasi kingdom for 200 years. married Madālasā, a Nāga (mixed Caspian) princess With the assistance of the Nagas Alarka (1712 B C) son of Vatsa and Madalasā regained his ancestral Kāsi throne by driving out the Haihayas who were harassed by Iksvāku Sagara Kasa was the founder of the Kasa dynasty Kasa was Kassite, Babylonian Kasshu, Egyptian Kush, Biblical Kushite, Iranian Cossaei. Kasshu came by Gilgit passes Kash-mir

has been named after them. There is still a Khos tribe in Chitrol, There are Khasa tribes in Dehradun and Simla Hills Khus tribe in Nepal. The Khasas of Dehradun and Simia Hill are very tall, long headed with hazel eyes and broad face, with square laws and broad chin aquiline nose and thick beard. They practise fraternal polyandry. And their sexual morals are loose. This is the general characteristic of all Caspian tribes to which the Kassites and Assyrians belonged. Obspiration of the Dehradun yalley through the Gangetic basin the Kasas (Kesin 8 41 9) reached Kasa, conquering and deplaong the intermediate territories which were occupied by the Anavas and the Purus about 1950 B C. The incursion of the Kassites and of the Kausika Gadhis who were also mixed Kassites and who followed them as a rearguard caused great racial and political disturbance which lasted for more than two centuries before social order peace and prosperity could be re-established under the domination of the Khatti Purus Danu (4 30 7 Dinava 4 28 4 x 120 6) as the Caspian Danu (4 30 7; Dānava 4 28 4; × 120 6) is the Caspian Danaus (Gk. Danaoi Bib Dan Egypt Danauna, Av Danus) After their settlements the Don Dineper and Danube have been named Danaus was the king of Argos and Danades are described as cruel and blood thirty Danams settled on the sea coast of Svria, next to Philistines (Pelasgi Veduc Pulasti) and they plundered the caravans which the weak rulers of Egyptian 18th dynasty could not prevent Danams introduced bull worship and was regarded as embodiment of wickedness and was the unredeemed tribe (Rev 7 5) In Avesta we find that Danus (Abor Vest 73. Ferry v. 38) are numerous and that Danus (Aban Yast 73; Farv y 38) are numerous and flerce fighters. According to Puranas the Bhargavas (Bhryges -Phrygians) were the priests of the Danavas Bhrigu mar ried Sacı Paulomi (authoress of x, 159) a daughter of Danava chief Pulaman. Kavi Usanas Sukra was the priest of Danava Vaishaparvan and Sukra's daughter was married to Yayati possibly of Mediterranean descent Sambara (1 51 6) is very frequently met with in the Vedas and generally as the enemy of Ajamira Divodasa of Pancala and Dasaratha of Ayodhya Sambara is mixed Cimbri Cimbri was a powerful Caspian tribe. It twice defeated in 113 and 100 B C the arrogant imperial mighty Roman army It wandered along the Danube, the

PEOPLES 168

Rhine It entered into Italy, passed through Spain into Africa It is also possible that the Cimbri turned eastward. In Tibet, Bhutan, Sikkim, there are pionounced Caspian factors. In Chinese Szechwan and Yunnan Moso and Hsifan tribes have Caspian blood in them. The Mon khmer peoples of the Mekong valley are a mixture of the Caspians with Negritoes and Australoids in various proportions. The Cham people, Phong. Mon and Kha of the higher plateaus and mountains are still high-vaulted dolichocephals with tall figures, fair complexion narrow and sometimes aquiline nose, non-Mongoloid eyes and wavy hair. Sambara is the living Sabara, Puranic Sumbhu and Nisumbu who in prehistoric times spread all over India. The buffalo is associated with Monkhemer culture. They are the Monkhemer Mahishas in different mixtures—Sumbha, Nisumbha—people who were conquered by the Turvasus. Hence the Mediterranean goddess Isani (Virgo) riding over lion (Leo) killes Mahisha. Todas were also of the same race, but an isolated clan of purer breed.

loid eyes and wavy hair Sambara is the living Sabara, Puranic Sumbhu and Nisumbu who in prehistoric times spread all over India. The bufialo is associated with Monkhemer culture. They are the Monkhemer Mahishas in different mixtures—Sumbha, Nisumbha—people who were conquered by the Turvasus. Hence the Mediterranean goddess Isani (Virgo) riding over lion (Leo) killes Mahisha. Todas were also of the same race, but an isolated clan of purer breed.

Cumuri (2, 15, 9) is the Cimmerir Crimia has been named after them. It is possibly identified with the Bib Canaanite Assyr Ginnara, Pur Kinnara. They were expert horsemen. Through Caucasus they overran Armenia, and Asia. Minor Naramsin of Agad. about 2500 B.C. had to defend his empire against the attacks of Umman-Manda. Manda (Murunda) is a Cimmerian tribe. From the settlement of Manda, Media has been named. In the eighth century. B.C. the Cimmeric coming from Armenia destroyed Phrygian (Bhrigu) kingdom on the ruins of which Lydia rose with Sardis as Capital. A second Cimmerian invasion, especially under its leader Cyaxeres of Ecbatana destroyed the rising kingdom of Lydia. When the Manda king. Dugdamme died. (Lygdamis of Strabo. 1, 3, 16) it was regarded by Ashir-bani-pal as a divine favour. But during the reign of his successor. Ashur-etil-ilani. Scythianis devastated. Assyria and penetrated into the border of Egypt. Calap was levelled with the ground. And Assyria could only save itself within the strong ramparts of Nineveh. Ashuretil-ilani was succeeded by his brother. Sinsar-iksun (Sarakas of Berossus), but he had to wage a war to suppress the rebellion of his viceroy. Nabopolassar. of Babylonia. Babylonians.

were aided by the Manda king of Eobatana Cyaxeres of the Greeks and Ninevah was captured and burnt by the indomitable Scythian army Cyrus (Kamboja Kurui the Achaemenide king of Anahan in Elam with the aid of the Parsas (Purus) revolted against his suzerain the Manda king of Eobatana. The army of Astyages (Asi Dahaka) was permeated with intrigues and out of mutual zealousy they betrayed their king to Cyrus Cyrus established himself at Eobatana and consoli intrigues and out of mutual zealousy they betrayed their king to Gyrus Gyrus established himself at Echstans and consolidated the Iranian army under the Parsa leadership Like the inscriptions of Naramain of Agade, a tablet has been found at Sarpour of 2650 B C with Caspian types of men, under the name of Lulli Sargon II (722-707) mentions that Emi (Blam) was occupied by Kasaipi (Arm. Quesasye; Skt. Kasyapa) and its capital Kisesin as pictured at Sargon a palace at Khorsabad, stands on a high ground surrounded by three walls and tower like tall houses and there was a big canel at the foot of Mt Kispal At Kurangun, not far from Persepolia, there are rook sculptures of 2400 B C in which the god sits on a throne formed by a coiled anake and in his head cap there are two horns on each side. In his hands the god holds a vase from which water flows towards the worshippers on both sides. In front of the god there is an altar like that of the Khattis. God and goddess wear long side curls like the old Khatti heads from Tell Halap. The women worshippers wear Khatti trailing skirts and the mas culine headdress resembles the Phrygean cap. The head form of the gods and the worshippers is brackycephalic with high pringed aquiline nose Almost a replace of the Kurangun sculpture of about 1800 B C existed at Nakahi Rustan the burial place of Achaemenide kings where Bahran II (274 A D) had a new sculpture executed over the old Assyr ruler Salmanssar in 835 B C mentions Amadai (Mada) Parsuas Parthava and Pattsharar (Beh O P Baga, St. Bhaga) stan Ins. Pati-lord, shvara Skt svar O P hvara, Ar svara Per khworl, the region between Demavend and Salt Desert It is a pure Aryan word, and not Ir where s is pronounced as hand vas p Sargon mentions that Kahathrita a chief of Kar-kassi made a coalition with Dahyupat (ruler over Dahao — Daoi Ry Dasa) Made Vahmyatarpab The coalition conquered Kisesin in 678 B C. Asurbanipal in 639 B C mentions that as he conquered Elam, Kurus, Parsuawa ruler sent his son Arvataspa (Ariukku) to Nineveh with presents Kurus founded Pasargadae in 559 B C Darius mentions that his great grandfather was Aryaramna (Arya Ramana), ruler of Parsa When Cyrus conquered Ansan and Acbatana, his brother Aryaramna was made ruler of Parsa. It seems that Kurus (Caspians) conquered the Parsas, and they were amalgamated And there was some Aryan blood among them as the name Aryaramna indicates The Aryans reached Demavend region and Media in 9th century B, C from Arranives, the territory between the Oxus and the Iaxartes

Palasti (3, 53, 16) is Assyr Palastu or Pilastu, Egyp Pulesati, Bib Philistine, Gk Pelasgos, Pur Pulasta, possibly also Pulama (predatory Poligars of Deccan) In Egyptian monuments Pulesati (Purasati) is mentioned as belonging to a confederation which threatened Egypt in the Mitannian Twelfth Dynasty. In the eighth year of Rameses III (1154 B C) the Pulesati was pushing towards Egypt on land and sea Syrian states were overwhelmed, and the Pulesati advanced towards Egypt Ramases III collected a large army and navy, inflicted on the Pulasati a disasterous defeat and rout. The Egyptian monuments represent the Pulesati with a distinctive feather headdress, resembling that of the Lycians and Mycenaeans The Philistines, after which the country has been named Palestine, formed a confederation of five cities (Ashdod, Ascalon, Ekrom, Gath, Gaza) which remained unconquered by the Israelites (Josh 13 2) A Pulasta chief married Dravira, daughter Alpine Bessi (Vaisya) Trinavindu (1600 B. C) of Vaisali dynasty Trinavindu's son was Visāla who founded the great city of Vaisali, famed in Buddhistic annals Pulasta and Diavira's son was Visravas Visiavas married Devavarnini, belonging to Angiras Brishapati family, priests of Trinavindus. Their son was Vaisravana Kubera who ruled over the Yakshas (Veddas - Australoid) Kuveia for his vast possessions the Yakshas became the presiding deity of wealth And Yakshi in Buddhist literature became identified with Sirimā (Sri=Lat Ceres) Yuechies were also called Yakshas, possibly both are mixed up However Yakshi is represented

of a pretty Kushan type. Kuyera's descendants had four sons -Nala Kuvera, Ravana, Kumbha-karna, Bibhisena and a daughter Surpa-naki. Naki was also the name and title of the The Chandra Vames of Bhays Nigas was called Nakavant Chandragunta married Kubera Nica. Naki and Naca were synonymous with slight phonetic change; or it might be Surpa nask or nakha - sharp-nosed, that is aquiline nosed a marked Caspian trait S and Kha are interchangeable as Tushara Tukhara Rima fought a long war with Rayana (the title of the Pulsets kings) with the aid of Bibhisens in which Rivana was defeated and Bibhisena was put on the throne Rayana had married Manda udari (slender waisted this wasp waist with a tightened waistband was the fashion with the Mycenseans) daughter of Mays Danava his other daughter Mayavati was married to an iron armoured Sambara chief (Sive P 6 18) After Rayana was killed, Mandhodan became the queen of Bibhisena. Pelasgi, Etruscan and Itara have been identified to be the same people, allied to Dansus (Dinavas) and Bryges (Bhrigus) Puranic Miccoha is the Molossi a most powerful people in Epirus inhabiting a nar row slip of country called after them Molossia. Sargon 1 of (2650 BC) of Agade of Caspian origin called the northern part of the river plains Melucha land possibly after their settlements. There was a Melchi people in Palestine (Lu. 3 24) Melchizedek (Gen 14 19)

Bakaputa (X. 182, 5) is Sakaputra—a Saka descendant. "This crime Sakaputa has committed that he has killed the heroes that took shelter as friends (X. 182, 5). No doubt it is a revolting transgression against ethics of hospitality. But the Sakas were cruel and ferocious nomads. Saka is the Sacas, one of the most numerous and most powerful of the Scythian tribes. They were very warlike and excelled especially as cavalry and as archers both on horse and foot. According to the Chimise Sak or Soes tribe settled near modern Kashgar About 160 B O the Sakas were driven south by the advance of the Yuechi (Tochari) One portion settled in Western Afghanistant hence called Sakasthana (Seistan) The other section occupied the Punjab Sind Gujrat, Malaya and Nasik and the rulers adopted the little of Kahatrapa or Chatrapa a stortened



Farvardin Fast (29 188) Khumbya,—the son of the Jar (Kumbha) is also found — It is likely that Agastya and Vasishtha favoured

the worship of Agusmus (Kumbha)

About 30 000 years ago paleolithic man in Moravia, whose cranium is of Caspian type, hunted manmoth, made clay statuettes of manmoth, lion, bear woolly rhinoceros, rendeer owls horse and Venus. They also made bone needles and artefacts Eyes were also made in the bone-needles. Swan s bones were notched and made into whistles. The statuettes were made up of bones ground to powder mixed with loes and fat and made into a paste. A similar paleolithic cave bear found in the Isturitz cave in the Pyrenees. The bears are still worshipped by many Siberian tribes. While the Moravian owls and Venus are made of clay Irkutsk mammoth hunters made them of wory But Marayian owls and Venus were tattoed and dimpled indicating that they were used in fertility rites (L L N 28/1986 A horses head; an auroch, a wolverane and a wolly rhinoceros (Rhinoceros ticharinus in relief has been found at Las Carnes cave of the Aurignacian period (30 000 -25 000 B C) in Spam (L L N May 25 1935). In the Hogger Mountains of Central Sahara a rock-engraving of an ox with lyre-shaped horns a spotted leopard Above it is a lion with its mane and tail, like certain Scytho-Siberian bronzes. And there are ochrecoloured paintings of two nude very tall well built archers with a double-curved bow in the right hand and a kind of boomerang in the left hand And two very tall nude dancers with pupped up hair dress (Caspian) And a fresco-painting of massed cattle with lyre-shaped horns and men (I. L. N. Jan 1 1939) The Soythian golden sheath of 7th century BC found in Kalermes Barrow in Kuban District on the Azob Sea now in Moscow Museum, contains a winged lion, holding a drawn bow and arrow with an artificial hand, arraing out of its shoulder. The helve of iron, encased in gold has in relief the horses and Siberian lions oxes elkes goats. The pommel of gold on iron sword hilt consists of two addorsed boyine heads, richly bedecked with sacrificial necklace on the gold comb of sixth century B C found in the Solokla Barrow Dnieper district two Scythian warriors clad in hide

garment, head helmeted, a hide shield in the left arm, and a dagger in the right hand, rush in from either side with pantherlike movement, attacking a cavalier, wearing a metalic ringed armour on his breast and throwing a lance from his maginificent prancing horse (1 L N August 24-1935) Herodotus says of the Scythians The Scythian soldier drinks the blood of the first man he overthrows in battle Once a year the governor of each district, at a set place, mingles a bowl of wine, often mixed with the blood of the enemy, which all Scythians who have slain a foe have a right to drink Among the Issedons when a man's father dies, all the near relatives bring sheep to the house. These are sacrificed and their flesh cut to pieces while the dead body undergoes the like treatment The two sorts of flesh are mixed together, and the whole is served at the banquet. The head of the dead man is stripped bare, cleansed and set in gold. It then becomes a sacred object and is brought out year by year at the great festival which sons keep in honour of their fathers.

Kasyapa (9, 114, 2) is the generic name of the Caspian Mt Demavend was called Kāsyapa and the Caspian Sea was named because the Caspians lived there In the Iranian population, there is a strong Caspian factor, marked by tall stature, dolochocephalic head with broad face and prominent nose and hazel eyes Caucasus means Kuh-kas, the abode of Kas or Kassites Kashmir was also settled by Kasyapas who gave the valley name after them, Kasa or Khas (Kassite). but where driven out by Takshaka Nāgas (Tajiks, MB h 2, 82), and later dominated by Pisācas, Daradas (Alpines) and Karkata Nāgas Though Kāsyapas (3 41, 9 Sat Br Kesin Darbhya = Kassites) had no Family Book, yet there are numerous Rik compositions by Kasyapas (1, 99, 8, 29, 64, 67, 91) Dartua is Mongoloid Dartu tribe The river Araxes was called Dait, for Daetus lived there Another Mongoloid tribe was Kirāta (Kitara)

Bheda (7, 18, 8, 7, 83, 5) is the Australoid Veddah and Yakshu (7, 18, 19 Skt Yaksha) belong to the same race, possibly an allied tribe. The skulls found Aditnallur and at Sialkot and at Mohen-jo-daro are of Australoid Veddah type. Rakshāsas (7, 15, 10; 7 101: 13-16) Skt Rākshasas are the

Negroes In the epics Dinivas and Mleochas (Caspians) are called Rikshasas The Jewing skull of S India shows Negroid traits Vasiahtha (7 104 4) Burn them in fiames and throw them into deep wells (5) Bury them and their children under the earth (11) Slay their males and females Their gods (mura devah—foolish gods) are fools like themselves

9-SOCIAL LIFE OF THE ARYANS

Aryans called themselves Kruhtayah (1 4, 6) Krishtaya √is the cultivator the tiller of the soil √Kar or Kal - to move. Skt krahn-agriculture krishaka krishaya-cultivator Lat cultus-tilled, pp of colere-to till Gk boy kol-os-a cattle driver The cultivated land was called urvara (1 127 6 Gk. aroyra Lat arare Khatti are plough Av urver-anam, Skt urvarinan) The cultivators need fixed habitations of the people—vasatim jananam (5 2, 6) \sqrt{vasato dwell. Sht. vasati—dwelling place, vastu—a house Gk as ty—a city Lat uer na—a home born slave. Goth. wis-an—to Skt. Julit-clan. VGan-to beget Skt. janaka-bester
jan-ani-mother Gk gen os-tribe, gen ess-origin gyne-Jan-ani-mother Gw gen os since, gen eas sorigin gyne-woman Lat. grgn-ere-to beget gen itor-father gen us-kind gens-clan Goth kein an-to germinate kum-kin, kwino-a woman. The settlement of a clan was called our (7 88 6) As the sticks and lashes drive out the cattle, so the Bharata Janah were scattered But when Vasishthas the Buarata Janah were scattered But when Vasishthas became their leader then the Tritsu clannish settlements (viso) widely extended (7 33, 6). To strong Rudra with hair khots on his head (kapardina) we bring our songs of praise so that all our bipeds (men) and quadrupeds (cattle) in this village (grāma) remain well fed and healthy (1 114,1). Quite different from Grama (X, 127 5) is the forest—Armyshous (X, 85 25). Gk. kor-os—a dance in an enclosure kor-dense. tos = an enclosure. Lat. hortus - a vard. a garden As gear-d

=yard. So grāma seems to be an enclosure of high ground. surrounded by wooden or tree barricades to protect the villagers and their cattle against the attacks of ferocious animals or of hostile raiders. Densely populated place was called pura (1, 53, 7), puri (6, 2, 7), the Gk. polis, and Lith pilis Khatti pir-house Durga (5, 38, 7) is a fortified place where one cannot enter without difficulty Durga is Ger burg, Lat burgus, Fr bourg, Eng borough v Dar-to tear. rend, rive Skt, dri = to buist open. Avestan dar = to cut Gk der-em = to flay Lat dol-are = to destroy, dol-or = pain, Russ dra-te = to tear, dira = a ient Goth ga-tair-an - to break, to destroy As ter-an = to tear Skt druh = to injure Av. druj, O. Norse drawer, O Sax grdrog = Ghost Dama (1, 75, 5) is a wooden house, Gk domos, Lat. domus, OSI domu, modern Skt. dhāma. Dam = to build Gk. dem-em = to build of wood by a carpenter, dem-os = building, room Lat dom-us = a house, Goth tim-r jan = to build, joiner, As tim-ber = timber Taksan (9, 1112, 1)—Av tashan—Gk takan, all meaning carpenter Gostha (1, 191, 4), gotra (1, 51, 3) are enclosures of cattle (go) as well as men as they lived together $\sqrt{G}u = to$ low Skt. gu—to sound, go—bull, cow, go-pa—cow-heard, village head. Gk go-as—to lament bo-s—ox, Lat bo-are—to shout, bos-ox As cu=cow Goth gavi, O. Ger gewi-cow, like Skt go-pa Ger gau-leiter means the leader of a district Griham (X, 85, 26) is the dwelling, and griha-patni (X, 85, 26) is the mistress of the dwelling Skt griha=Avestan geredha = Lat. crypta - Gk gype, crypte - grotto, an underground cave Gk. thalamos (inner chamber) is derived from Gk tholos, which means cave as O. Ger dal It seems therefore that ancient Aryans lived in caverns 'According to Tacitus (Germ 16) Germans used to keep their provisions in subterranean chambers O Ice Dyngja means cave where women used to spin Dvar (1, 48, 15) - Av dvara = Lith duris=Russ dveri=O. Sl dviri=Gk thyra=Lat foris-Goth. daur = Ger thor = door √Du = to enter Skt. dvar = door Gk. du-esthai = to enter Lat duc-ere = to lead Goth tiuh-an = draw, to pull The wooden door frame is Skt ata, Av Aithya, Lat antae, I ce ond (porch) Though Sālā (Av 3, 12, 1) originally meant a long covered room, Lat cela, Fr salle, Gk.

kalya, Eng hall, among the Aryana it meant a hat almost like a nomadic tent. /Kal-to hide cella-a cell. As helan-to hide "Here I fix my Sala firm. May it stand securely (sprinkling Ghee as a magical rite) In this sala may we dwell with our soldiers heroes and unwounded fighters (Av 3 12 1) A great garner art thou O Sala with big roof of cleansed grains. To thee may the boy (kumāra) bring in the evening the kine with calves leaping with joy (Av 3 12, 3) O patron deity of the house, whom the gods have made our protectress clothed in grass (trins vasana - grass roofed Gk, orophe, cover of domos was made of orophosrushes, and Lat culmen, roof of culmus straw) bring us welfare. Give us wealth and heroes (Av 8 12, 5) Bring forward, O woman (Niri-Av nam) the jar full of Ghee mixed with ambrosia. Offer it to her (the guardian deity of the dwalling so that by the acceptance offering may she the awaining so that by the acceptance onering may she protect us (Av 8 12 81." Of the props (upamit) of the supports (praimit) and also of the struts (parimit) of the hut (Sala) which possesses all choice things we unfasten the ties (Av 9 3 1) Of thy beams (vaniso—Goth bagins A. 8 beam—tree), rafters (nihana) and grass stringed bindings, O thou that possesses all choice things we unfasten the ties (9 3, 4) Of the clamps (samddamsa) of the supports and the beams. now of the mistress of the dwelling (seems to be an idol as now of the missress or one awening useems to be an acro as the guardian deity) we unfasten the ties (Av 9 3 5) What hanging vessels (sikya) they bound on thee for thy comforts those we unfasten Be thou O guardian deity propitious into us (Av 9 8 6) Oblation holder fire-place (agni-silk), ladies apertment (patning sadanan) are thy seats, O goddess of the gods (Av 9 8, 7) The thousand-eyed net (akahu) or the gods (AV 9 8, 7) The thousand-year het (agand) streeched out as Opiles on the division line and tied we un fasten with prayer (brahman AV 9 3 8) The description of creeting and demolishing the Sala shows it to be a filmsy straw thatched hut. In Vendidad (Far 8 2,3) we find about the disposal of the dead body "If they find it easier to remove the dead than to remove the house they shall take out the dead, and purify it with sweet smelling plants like gar lic, benzoin alos and pomegranata. But if they find it casier to remove the house than to remove the dead, they shall

take away the house and purify it with the above mentioned sweet smelling plants" This also shows it to be a temporary straw thatched cottage or hut To support the gable roofs there was a central timber post Skt Sthuna, VStu = to make firm Skt. sthula = strong, sthuna = a pillar Gk sty-en = to erect, sty-las = a pillar, sto a = portico. Lat stu-ppa = tow Sthuna = Av stuna = Lat stele = Gk. stele

Father was the despotic head of the family. He was the dam-pati (Sk dam, Gk domos, Lat domus=house, pati, Av paiti, Gk posis, Lat pot-is=master, dampati=Gk despotes), the autocrat of the house. He could even sell, mortgage or kill his wife and children with impunity in very ancient times. Skt pitar=Av pitar=Gk pater=Lat pater=O Ger fatar=Gei fadar=Fr pere=Sp It padre, Toch Pātār, Arm hair \(\frac{1}{2}\)Pa=to feed to protect Skt pusha=to feed, pushta=nourished, pā-laka=protector Gk pat emai=I eat Lat pabulum=food, pot is=able (originally master), hos-pes=a protector of strangers, pa-nis=bread, pa-scere=to feed Russ pitate=to nourish As foda=food, food-or=fodder. Skt pitrivya=Gk patios, Lat patruus, As faedera=father's brother Skt mātar, Av matar, Gk. meter, Lat mater, Ger Mutter=O Sl Russ mati=Lith mote=Gael, mathair, Toch Father was the despotic head of the family. He was the Mutter - OSI Russ mati = Lith mote - Gael. mathair, Toch mātai, Arm mair. \(\sqrt{Ma} = \text{to measure Skt mā-nam, mā-tiam, māpaka = measure, māsa = month, Gk me-tron = Fr metre Lat -me-tare = to measure out, mod-us = measure, moderation Lith me-ia, Russ mie-ra = measure Mother used to measure out food to the inmates of the house as to their requirements She was the mistiess = patni (Gk potnia) of the house Not only this, she used to keep order and discipline in the house and measure out punishment to her children and especially to female inmates for their negligence of duties or commission of wrongs Skt bhrātar = Av. bratar = Gk phrater Elat frater=Lith brois-Russ bratu-Gei bruder, O Sl. bratiu, Toch procer, Arm bair, Cel brather, Teut broder &/Bhar=to maintain Skt bhara=supporter, bharana, bharata=supporting, maintaining; bhatra, bhatri, bhartā=supporter, protector, husband, vāryā=to be supported, wife Gk pher-em, Lat. fero=I beai, fer-tilis-fertile, for-tuna=fortune. As. ber-an=to bear It seems that the brother's duty was to

support brothers sisters parents. Brother among all Aryans was the protector and guarantor of his sister's virginity and honour If the sister had lost her virginity before marriage, he was disgraced before the assembly—Sabha He had to maintain his sisters, even if married in case of their needs maintain his sisters, even if married in case of their needs Woman's chastity among the Aryans was highly prized and carefully protected like the kingdom of a ruler (X, 109:) Brother ardently looks after the welfare of his sister (1,65:4) Brotherless girls went astray (11247) = lohita visasa the dress of prostitute, abhritara iva jimi (Av 1171) Bit svassa = Av qanhar Lat soror-Gk eor (daughter) = old. Slav Russ sestra = Inth. seau (gen sesseres) = suister Tent swistar Cel suir Ger = solwester = sister Its derivation is uncertain. But possibly it is derived from the same root as rotati which means loy and happiness So sours means one who pleases and looks after the welfare of her brothers Skt. vagini means and looks after the welfare of her brothers Skt. vagun means possessing vaga=fortune amorous delights vulva. Among the Caspians union of brother and sister was prevalent \(\times \) Bing=to eat, to enjoy Gk. phage ein=to eat phegos, Lat ficus Skt. \(\times \) bhogin=sister any woman or wife bhagin—happy bhoja, bhoga=enjoyment; bhogin=a voluptuary Skt sunus=Av hunu=Gk hunos=old Sl synu=Lith, sunus, Goth, sunur, Ger sohn, Toob soya=son Su=to generate. Skt suta=son, sukara=pig Gk. hus=sow swin=swine su nu=son Skt. putra=Av pigs As su=sow swin=swine su nu=son Skt. putra=Av subthra=Gk nuse=Lat nu nus nu tins \(\times \) Pin=to becat Skt no. pige As au sow sw in swine su nu son Skt. putra Av puthra - Gk. pais Lat pu pus, pu tus \(\times Pu - to beget. Skt. po-ta the young of any animal po frin = pig Gk. pais son, po-los - a fool. Lat pu-ersa boy pu ella = a girl, pu llus - the young of an animal. As fo-la = a foal. Skt. duhitar Av dughdhar Gk. thugater Toch tkacer Arm luttr Lith duhte, O Sl. dustr Russ. dochi O Ger tohtar - daughter \(\times Dug - to milk \) Skt. duhn = to milk dugdha = milk, du hitn = milker (of cows Skt. duha—to milk dugdha—milk, du hitri—milker (of cowe and mares) Goth dug—an As dug an—to be strong So it was for the daughter to milk the domesticated animals, especially the cows and mares as it was the son's duty to graze the cattle and to keep the stable clean. \(\sqrt{Pu}\$ to purify, to cleanse Skt pu ta—pure cleaned; pu tra—son Gk pu r—fire (the purifier) Lat pu tus—cleansed, pu tare—to cleanse to prune trees; pu rus—pure pu teus—a (clear) spring As fy r—fire which

cleanses and purifies everything. Skt Napat=Av napat=Gk. anephios (nepodes. nephew, niece),=Lat nepot (grandson), nepos (nephew)=O Sl netiji (grandson, nephew), Goth nipjis (cousin), As nefa, Cel nia=grandson Skt snusā=Gk nuos=Lat nurus=Goth, snura=O. Sl snucha, o Ger snura Ar nudaughter-in-law V Sna=to bind together, fasten Skt sneha daughter-in-law \checkmark Sna=to bind together, fasten Skt sneha — affection, snigdha=greasy, amiable, snāyu=tendon. Gk ne-nin ne-thein=to spin, ne-ma=thread Lat ne-re=to spin So daughter-in law had to spin and attach every one by affection. Skt svasura, Av qasura, Gk hekuias, Lat socer, Goth svaihro, O Sl svekru, Lith szeszuras, As sweor, Ger sweher, schwāher, Ar skesiair=father-in-law Skt svasru, Gk hekura, Lat. socrus, O Sl svekry, Goth svaihra—As. sweger, Ger. swigar, scwieger, Ar skesur=mothei-in-law \checkmark sak=to follow, to fasten Skt sak-ta=attached Gk. hep-etes=attendant, sattein=to fasten on a load to pack sag-ma=a, pack-saddle. Lat segmi=to fasten on a load, to pack, sag-ma = a .pack-saddle Lat seqni = to follow, sec-undns = favourable, soc-ius = companion, sanc-ire = to bind by a religious ceiemony; sac-ei = holy Lith sek-ti to follow Daughter-in-laws used to attend to the needs of their fathei-in-law and mother-in-law and obey them as a their father-in-law and mother-in-law and obey them as a sanction Skt Devar=Gk daer=Lat levir=Lith dewers=O Sl deven=Goth zeibbur, As tacor, Arm taiger Devar means secondary (dva=second) husband (vara=bridegroom, husband) as husband's brother Levirate was common not only among the Aryans, but also among many other races (Gen 33, Deut 25) Skt Dva, dwa=Gk dvo, Lat duo, Lith dwi, Russ dva Ger Swei-two \sqrt{var}=to choose, to like Skt vri=to choose, select, prefer, var-a=a wish, bridegroom, husband Gk boul omai=I wish Lat col-o=I wish, vol-upis=agreable, voluptuous Goth wil-jan=to wish Among the S Slavs, husband's brother or cousin (djever) lies between him and bride for the first night Widow (vidhavā) welcomes her brother-in-law (devaram) to her bed as the wife desires her husband (X, 40, 2) In Russia it was the general custom to accord connubial rights over his brother's wife (snochā)=Skt yātri, yātara=Gk einateres=Lat janitrice (Skt janayatri)=O Sl jetri Skt Vidhavā-Lat vidua=O Sl vidova=Goth viduvo=Fr. veuve, Gk hetheros, Russ. vdova, It vedova, Sp vidua, O Ger, Wituwa, Per beva-widow, vdoya, It vedova, Sp vidua, O Ger. Wituwa, Per beva - widow.

Vid=to break through. Skt vyadh=to pierce vedhu=piercing Vidavi=bereft of man or husband. As wid=wide (separated) wid u=out wood. Goth widu warms=bereft of supporter orphaned waur—a man husband widu wo(ar)—widow. Skt. Vasi=wide. Vas=to desire, vis=to perfume vasi=a female servant a sterile cow. Vasaka=an obedient wife Gk ekon=willing; Lat vacca. Fr vache=cow Lat. uxunes, Fr espouse=wife Skt Jamitar Yimatar Av Zamotar, Lat genere Fr gendre=maker of offspring /J (g) an=to beget Skt Jamin=mother Jayi=wife Jami=daughter Jami=daughter in law related like Lat Jaminus, Fr Jumeau Skt Yama (twin) Gk. Genos, Lat Genus Roman gens Teut Konya, Eng Kin Skt Jama, Jiti.

Marriage was originally by capture and abduction but was exogamous. Skt Viviha means carrying (vaha) the birde (vadhi) in a specual (vi) way. The bridegroom used toome accompanied by his best man (Vara Vitrika) armed with sword riding on horses or on chanots. They carried by force the weeping girl, defended by her kinsmen, with missiles, now symbolized by throwing cakes, hands bound, now symbolized by wearing iron bangles and her body covered with wounds, now symbolized by wearing red Siri and putting on vermillion mark on her forehead as a sign of marriage. JVah=to carry to remove; Skt Vahs=vehicle horse; Vi viha=carrying a thing (bride) in a special way—marriage Lat vehere=to carry dulcere (sweetheart) vehiculum—a vehicle via=way As, weg an=to carry waggon /Vad=to carry home to wed a bride Skt, vadh u=a bride Av vadhrya—marriagable, vad emno—he who conducts home a bridegroom. Gk bre-m=to teem; a-ethlon—the prize of contest (to be carried home) Lat. vas=a pledge Lith, wed u=1 conduct, I take home a bride wad ss=a leader a guide; wed ys=a wooer; wed lys=a bridegroom. Russ ved-enie=carrying ne-vie-ta=a bride Goth, wadh=a pledge; Goth, bruths Ger braut, Teut, brudi=bride As marriaga by capture caused tribal fends, it was substituted by purchase of bride from her parents through cattle which was the medium of value and oxchange.

chariot, and sometimes a horse (San. Gr S 1 14 16) And another as a guardianship transference fee (gotrantar dakshina) Oxen caparisoned steeds, shelds spears and swords are given as presents to secure a wife Wives receive no dowry She makes a present of some arms to her husband as a symbol, bravely to defend and protect her What she receives as presents she has to return inviolate and honoured to her children what her daughters in law are to receive and again Ger 18) Young maidens were brought up in the retirement of their homes where they busied themselves in domestic employments and only associated with men whenever a guest arrived at the paternal abode. An insult to female modesty or honor was deemed an unpardonable crime and punished with death. The virginal wreath was worn by the bride on wedding days No maden could wear it whose honor was not spotless. Slander if proved, was punished with unusual severity Rape under whatever circumstances was punished by the most degrading death, and even late in the Middle Ages we find decreed that in the house in which such a crime was committed all it contained even down to the cattle should be deprived of life and the house itself razed to the ground But among the Frissii the woman was placed between her parents and her ravisher; if she turned towards the latter the crime was forgiven. But if she turned to the former the criminal was condemned to death The bridegroom paid to bride's father brother or guardian a sum fixed by law upon which the right of guardianship or that empowering him to appear in her stead before the tribunal was handed over to him (gotrantar dakshina-transfer fee) The affianced pair shock hands (pan grahana) and exchanged kisses and rings. It was usual to place a drawn and sharp sword for three nights between a newly married pair Daughters did not inherit any property, woman's attraction was her virtue and beauty and not her wealth Marriages between the free and the slaves were were declared bondmen. A freeborn man could marry his slave after having given her freedom; but a freeborn who united herself to a slave, boing unable on account of being

herself under guardianship to give him his freedom, became a slave, and to render the dishonorable act impossible, it was punished with death (severer than Manu's Laws 3, 15, ×, 30, W. Menzel—Germany P. 51) The bride was made to sit on a sheep skin or cow hide on her arrival to bridegroom's house "On a bull's hide the husband makes her sit down and sacrifices Through a period of three nights let them refrain from conjugal intercourse (San Gri S. 1, 16, 2; 1, 17, 5) In Rome the bride had to make offerings to Vases of water and Fire (Aqua and Igni), and to ensure fertility she was put on the lap of Priape, and Hymen in Greece, in Germany Fricco, and a boy was put on her lap "Here some place a boy of good birth on both sides in her lap with this verse-into thy womb (San Gr S 1, 16, 8)" The bude was carried to the nuptual bed with songs and dances As a symbol of the rupture of hymen, a water jar is bloken in Russia. And if the hymen was already suptured, they send a bloken 181 to the bride's father In Germany in the morning after the wedding the husband presented his wife with gift, called the morning gift, of which she could be deprived, and if any one disputed her right, proved it by placing her hand on her breast and swearing it was her wedding gift And she exchanged her virginal wreath for a married woman's cap (W Menzel—Germany P 51) In O Prussia, Greece, Rome and Aryavartta daughters did not inherit any property, except their marriage downes (personal ornaments and clothing) over which she had only life interest In case father died, brothers were bound to supply the marriage doweries In Greece even in case there was no brother, daughter did not inherit anything unless she married one of her father's phratry The idea prevailed that the land and the property belonged to the clan and could not be alienated to a different clan Though the wife (Jāyā) was the mistress of the house, she did not inherit any property And if she did not give birth to sons, required for war and chase and for the worship of the manes (pitris ancestors), the husband could take a secondary wife. Monogamy, however, was the usual rule among the Aryans Only a few chiefs might have indulged in polygamy

And if the wife was guilty of adultery, she was chased out of her home. The husband guilty of the same offence did not receive any chastisement. The wife particularly of a chief. was usually burnt on the funeral pyre of her dead husband. And though a widower could remarry a widow could not But a daughter who has not been able to secure a husband (which was very rare) remaining in the father's house, inhe rits his property (2, 17 7) A sonless father adopts his sonin law and the son of his daughter becomes his son. Father is born in the womb of his daughter (3 31, 1 2) "A wife is a comrade, a daughter a misery and a son a light in the highest The father entereth the wife, having becoming the germ : in the mother becoming renewed, he is born in the tenth month. A sonless one cannot attain heaven (Ast Br 7 13) Wife was purchased Adulterous wife a hair was cut she was stripped naked and was expelled from the house in presence of her relatives and pursued with stripes through the whole village until she expired (Tacit Ger 19) The same custom prevailed in > Russia even not long ago Children are regarded with equal affection by their maternal uncles as by the father So if there be no children the next in inheri tance are brothers, paternal and maternal uncles (Tuest Ger 23) Let him abandon a barren wife in the tenth year, one who bears daughters in the twelfth one whose children all die in the fifteenth (Baud D S 2, 3 4 6) An aduterous wife should be deprived of all her privileges and ornaments. She shall lie on grass bed and be given treatment and food of a slave (Yama V S L 70-72) Woman can have but one hus hand as she can have but one body and one life. German women killed themselves in great numbers on the bodies of their slaughtered husbands (W Menzel-Germany P 53)

But every Aryan youth could not procure a a wife by pur chase as it was very coatly So there were abductions and and elopments sometimes with mutual connivance. Young men run after women (1 115 2) Sexual impulsions generally ignore social laws and obstructions. And usually maidens yield to the youth that ardently comes with love (× 30 6) And wife (Jiya) is home (3 58 3) And no home is real home without a loving dustrul wife and affectionate children.

The touch of her magnetic personality transmits and sublimates every petty dioss into a divine hedonic bliss. And though woman was called Skt Jani, Jnā, Av ghena, Gk. gyne, O Sl zena, Gothic quino, all diived from $\sqrt{Jan} = to$ produce, meaning producer of children, she was also known as ramani=delightful and loving $\sqrt{Ra} = to$ be delighted, to love, restful Skt ram = to love, to be delighted, ra-man = sexual congress, pleasure, ra-ti=delight, Hindu Psyche. Gk. E-ros=love, the god of love Lith, rim-ti=restful, ram-as=

pleasure As ra-est = rest.

There were very few towns Aryans preferred arable and pasture lands Their homesteads and aiable lands were private; but pasture lands and forests and then products were common to the vis—community. Their thatch roofed (wooden huts (bhavana \sqrt{Bhu} to dwell, to grow Lat tri-bus = tribe, Gk phy-le=clan Lith bu-da=hut, buttas=a house) with wooden doors and frames had very little furniture People used to sleep on bear, antelope, sheep skins, cow hides, grass or hay While eating they used to sit on distinct separate or hay While eating they used to sit on distinct separate seats of antelope skins or grass (Vedic Aryans preferred Kusa grass—Poa cynosuroides) and food was placed on dry leaves of trees, joined together by grass stems. Women did not eat together with men, but they took their meals in the female apartment. Joint family was the custom. But the Gk phretre, sons and grandsons of phrates (brothers), Sk Pravasa, had separate establishments, phrating (Gk phratria), the sub-division of tribe, Gk Phyle, Roman curva. Homesteads were surrounded by arable lands which were both privately owned and granded. Dogs were kept to grand the homesteads against guarded Dogs were kept to guard the homesteads against the intrusion of the thieves, robbers and wild animals to bark at them, and thereby lousing the inmates (7, 55) Canis Major was also the Vastoshpati—the guardian of homesteads (bhayānah 7, 54, 1) For food and shelter a ruined gambler sought shelter at another man's house at night (×, 34, 10) Fields (kshetram) were measured (mānam 1, 110, 5) Apalā Atreyi prayed for the increase of production of his father's cultivated field (tātasya urvārām 8, 80 (91), 5) But the pasture land (gavya, gavyati 1 25, 16, 3, 62, 16) was common to the community as is evidenced by the employment of a common

Gopa for graing all the cattle (× 19 3-4) Germans have no cities or even admit of continuous settlements. The villages are laid out in rows of adjoining buildings, but every one surrounds his home with a vacant space (18) They take their meal on a distinct seat and at a seperate table (22) Heroes sleep on bear skins. Others on cow hides Children lie together on ship-skins or hay amidst the cattle with slaves till age (12 Tacitus Germania)

The domesticated animals were dog horse theep, cows, swine. Indian humped bull with lyre-shaped long horns droop wing ears and slender legs is known as Bos Indicas. Long horned humped bulls frequently figure in early Assyrian soulptures and engravings And they ploughed the fields and threshed the corn in Ancient Egypt. In the Hoggar Mountains of Central Sahara rock-engravings of ox with lyre-shaped horns have been found (I. L. N. Jan. 1, 1989) Shorth-horned bull has been derived from the wild or of Europe the Aurocks (Bos tuarus) In Spain and Italy both long horned and short-horned breeds are found. Long horned breed might have been introduced from Egypt and Sahara region. The long horned humped bull might have been derived from the Javanese Banting, the elevated ridge of whose withers developed into the hump

Meat and mead were the principal food and drink of the Aryans. Beef, mutton and pork were their favourite meat. Cattle were slaughtered in marriage feasts (× 85 13). Beef was cooked (x 28 3 pacha / Pacha - to cook, ripen phalam = rape fruits Gk. peptein - to cook, pep-on = ripe Lat. coqu-ere - to cook, Russ peche - to bake) Puddings were made with hashed meat of buffalo and ham cooked in milk (8 66 (77) 10) Horse mest used to be roasted on pits (sulam) It had fine flavour (surabhi) The roasted meat (mamsa-Lith, miesse = O Sl. meso - Goth mimz) from the oven (ukhaya - Lat. auxilla) was carried out and taken out for distribution with forks (ankah) Gravy (yusha /yas=to ferment, scoth. nir yasa = exudation, Lat jus = Skt yusha, Er jus, Eng luice Gk, zyme=leaven zomos=broth) was sprinkled over meat (1 162 11 13) Vimadeva (4, 18 18) laments "In privation I ate dog s intestine and saw my wife dishonoured

(4, 18, 13)". Soup was made by cooking together barley and meat (Supa=soup, Fr. soup=Ger. suppe \suk-to flow, to suck, Gk. op-os=sap, juice Lat. suc-us=juice, sug-ere-to suck. Russ sop=juice, sos-ale-to suck, Eng sup=to imbibe as a liquid Skt. supa=soup Supākāra=soup-maker, cook). Grains (dhānāh of bailey) were biewed and fried (bhrijjati: 4, 24, 7) Fried barley powder (Yab Kā Chātu) is still extensively used as the daily staple food in Northen India. Next to meat, milk and milk products were the principal articles of diet Milk was known as paya Barley or wheat boiled in milk was known as payasa Kshira is fresh-milk boiled until it has the consistency of syrup Dadhi is the curdled until it has the consistency of syrup Dadhi is the curdled soured milk Casein of the fiesh curdled milk is called peyusha, (Av turya, Gk turos) and of soured milk, Mastu The soured milk is navanita The boiled navanita until the greater part of its moisture is evaporated is ghritam or sarpis (Gk helpos, As sealf, Toch salypa). The curdled milk water (whey) is called mathita, when mixed with water, it is called takru Curdled milk was kept in leather bags (dritt 6,48,8). Possibly the leather bags (dritt) were shaken in order to make fermented milk or butter-milk Honey and milk or honied sour milk were favorite drinks Ripe fruits (pakvam phalam) were also relished (3,45,4). Hospitality to guests (attihi) was enjoined (Manu S. 4,182). The house in which a guest is entertained with giateful food is heaven (1,21,15). Raw flesh (kravyad) was no more used; it was the food of the Rāksasas (7,104,2 Gk kreophagi and bleeding flesh—amad×87,7, Gk omophagi, even human flesh ×87,16) But the Aryans once had been in the habit of eating raw flesh, for the Vedic Kravya, Kravis is Gk kreas (a piece of flesh) and Lat. caso, carnis and O Ger hreo The Latin criter and O Sl. bring some the game root manner. cruor, and O Sl kruvi coming from the same root, means bleading Meat was cooked in a pottery vessel caru with a cover apidhana (1,162,13). Copper or iron kettle (ayasmayas) was also used (5,30,15) Though guest was called goghna, the cow-eater, for a cattle was killed in honour of the guest, Jamadagni identified go with Aditi, the limitless expanse of the heaven (8,90(101),15, and thus became not-injurable and non-killable (aghna). The motive behind it was perhaps that

the cow was a very useful animal. Its milk was food and medicine to the young old and the invalids. Like mother's milk, it was nourishing for the same reason the Greeks and Romans did not eat the meat of plough oxen the ancient Britishers did not eat ducks chickens (for they ate on refuge matters and thus were cleansing agents) and hares (Carnoy Indo-Europeans P 118) Surk (82,12) was browed from barley grains. Sura (beer) gambling and anger (manyu) lead men astray (7866) Madhu is a pleasant drink (svado peto madu 1187 i Madu (honey madhuka bee) derived from √ Mad=to flow Skt mad - to be wet, to be drunk, madya = intoxicating liquor Lat madere = to be wet - Av madu = O Bulg medu - Lith. medus (honey) midus - Lett medus - O Pr meddo - Gk methu (methe - intoxication) - O Ger meto - Ice. miqdr - Dutch mede - Welsh medd - O Ir mid - An Sax. medu -mead. Lat mel-Gk melit (melissa-bee) - 1lb miai - Goth. milip-An. Sax. milise mildeaw-Corn mel-Q Ir mil-Ar melr - Fr miel - honey / svad - to be pleasant. Skt svads -Gk edus Lat suaus, Goth. suts. As, swet-e-sweet Aryans did not know the use of salt (sodium chloride) Meat-eaters need it very little. But the vegetarians require it badly to supplement it in their food. It is only mentioned in Av 7761 and not in Rik veda. Occasionally fish was taken, particularly tasty Ecl, Teut agla, Gk ekhis egkelys Lat anguis, Lith unguris = Skt andh ahi (Ts 5717) Andhahi (eel) was originally derived from blind that is, non poisonous snake like (Anguella valgaris) Salmon was called Lith. lasziswa O H. Ger laks Toch, laks Celt esoks. Scally fish was known 8kt sik: Tortoise was called 8kt kasyapa, 6k kelys, O SI zely Their (of the Germans) food is wild fruits fresh vension and cheese (Tacit Germ 23) Hospitality is To refuse any person whatever admittance under their roof is regarded flagitious. Everyone according to his ability feasts his guest. When his provisions are exhausted, he, who was formerly the host is now the guide and companion to another hospitable board. They enter the next house uninvited and are received with equal cordiality. No one makes any distinction with respect to the regards of hospitality between a stranger and an acquaintance (Tacit. Germ. 31)

Joint family is indicated by the following hymn (Av 3, 30) Be of the same heart and mind without malice to each Show affection to each other as the cow (aghna) to her new-born calf (Av 3, 30, 1) Let the son be obedient to the father and be the same to the mother Let the wife speak pleasant and harmonious words, to her husband (2) not brother hate brother, not sister (hate) sister. Being of the same intention let them speak (to each other) courteously (bhadrayā 3) Having superiors, be not divided in your objective Accomplish your goal with your joint labor Speak pleasantly to each other And be united with a common pulpose (5) Let your drink and food be common joined in the same harness, worship Agni unitedly like spokes about a nave (6) Unitedly be of the same purpose Be reconciled to each other like gods defending wine (amrita) In the morning and evening (always) be mutually inclined (Av 3,30,1-7) According to Tacitus (Germania 31), among the Catti (possibly a variation of Getæ of Caspain origin, Saka tribe Kathi after whom Kathiwar has been named, Katha of Yajurveda, Khatti) from the time they arrive at years of maturity they let the hair and beard grow and do not divest themselves of the badge—the promise of valor—till they have slain an enemy. The bravest among them wear also an iron ring till they have released themselves by the slaughter of a foe (compare this custom of having uncut hair and beard and putting an iron ling on the wrist with that of the Sikhs who are generally recruited from the Jats, also of the Getæ descent; The Swevi (living on the Elbe and the Vistuta, the Baltic Sea and the Danube) even till they are old, continue to have their hair growing stiffly backwards, and often it is fastened on the very crown of the head. Among Suevi and also the rest of the Germans, the slaves were shaven, or at least their hair was cropped so short that they could not twist or tie up their hair in a knot (Tacit Germ 38)

Dress—Vasana (1, 95, 7), vastra (1, 26, 1) = Av vanhana, vanh = Lat .vestis, vestio = Gk esthos, eima = Goth ga-vasjan = Eng vestment from \sqrt{vas} = to cover, to envelop The German children used to remain naked (Skt nagna, Lat nudus, Lith nugas, O Sl nagu, Goth. nacket, Ger nackt $\sqrt{\ }$

dressed their plaifed locks of hair on their head in the shape of water-jar (Kumbha) or Kurera (costus symbols = lings and vone shaped Av 6 138 3) Bride used to dress her hair in the Kurara fashion (10, 85 8). Men used to have pig tails and tie on the crown of the head opass (1, 178 6; Av 6 188 12; Vs 11 56) as the German Suevi used to do (Tacit Germ 38) We also find that the Vasishthas had their plaited locks in the right side (dolshinatas kaparda 7 33) The kings and the priests of the Vandal Astengi used to dress their hair likewise (Grimm Doutsche Myth P 317) Rudra (1 114, 1, 5) and Pushen (6, 5) 1) were also called Kapardin The Khattis used to wear pig tails (11 E B Hittites Maspero - The Struggle of Nations) The Germans according to Tacitus (Germanus 17) used the dress of skins of animal, for their clothing fastened by a clasp or in want of that a thorn. The Aryan women used earrings, bracelets necklaces as ornaments. While tattooing was the fashion with Beard was usually kept Indra went to the Caspian women wars holding his Vaira (mace) in his right hand and waving his beard (x 23 1) Agni devoured the forest of the hills and dales when fanned by wind as a barber (vapter) shaves head x 142.4) The razor is called Kehura, Gk. Kenron (8, 4 16) The head and beard are at first lathered (undantu) with hot water (ushna udaka) and then shaved with Khura razor (Av 6 68, 1 8) The beard of a dead man was also shaved (Av 5 19 14) Arvans used to have a strong twig in their hands as a staff (9kt Sthapena - Lith. stebas; Goth stafs)

Arms —Asani (1 143 5) is the thunder bolt of Indra Asan (4 28 5) is a piece of stone diams is derived from Asan which therefore means a stone club Asman is (2, 30 5) as tone chip a thunderbolt. Asman in Iranian means the sky for they thought that the sky was a stone yault Asman —Gk akmon (a stone anvil a thunderbolt)—Lith akmu (stone)—O Si kameni—Russ. kamene—hammer a stone anvil. Thore hammer is a piece of stone anvil. Thor is the Teutonic Indra /Ak=to pierce. Asani—chipped stone. Gk. ak ros—pointed, ak-one—what-stone ak-on—javelin ak me—odgs. List ac us—needle. Khatti and Mitanni Teahulp (Ketaba) wielded a heavy club in his hand. Iranian Mithra who combined in him many of the characterspice of Indra was armed with a brazen club having

hundred knots, the strongest of all waapons, the most victorious of all weapons (Mihir Yast 96) According to Tacitus (Germ. 45) the Germans were armed with a club made out of bent hard oak From this stone, later brass and finally the wooden club, the mace and sceptre have developed into symbols of power and authority Saxons were named by the Romans, for they used to sling stones (saxum) at them Sling stone was asani (6, 6, 5; 1, 51, 3)-Av asan-Gk akon It was later known bhusundi (Diona P Ch, 177), and the sling stones were thrown to the enemy by the rapid movement of short leather straps, two thongs fastened to the ends and the stones are hurled by centufugal force Arvata (1, 8, 2) was the cavalry India was a cavalry man (8, 40, 2) But in 1, 116, 17 it seems that Surva Duhitā ascended Asvins' car and not steed The warior was clad in leather Varman (Av Vareman = Lat. aim-ari-um. from armare-to cover the shoulder with leather as a defensive 1, 31, 15). Whether metalic armour was measure = armour only metaphorically used as the shining armour of war (varmeva yutsu paryar bhur anah) of Agni (1, 40, 10), the golden helmets of Maruts (5, 54, 11) or the feet shield (vaturina pada) of Indra (1, 133, 2) or not is questionable Helmet=siprā But when Varma is sewn, (×, 101, 8), it certainly cannot be of metal, but possibly of leather In the Avesta we find that Mithra is a warrior on a white horse, with a sharp spear, the long spear, the quick arrows with a silver helmet and a golden cuirass (Mihir $\hat{Y}ast.$ 102, 112) "The Germans covered themselves with the skins of wild animals, wearing on their heads those of the bear, the horned buffalo or the antiered stag, whence arose the custom of placing horns, wings and other symbols on iron helmets and escutcheons Sidonius says of the Germans, Death alone subdues them not fear, they threaten even in death courage survives them According to Labinus, they sat down in their meals in full armour and slept helmeted (W Menzel. Germany Vol. 1 P 25-28) Ratha (1, 58, 3) is the war chariot of the Aryans When yoked to good steeds, with a clever charioteer (rathin, sarathi, ratheshtha (1, 11, 1) = Av rathaesteo, 1athaestare) and archer, ratha (\sqrt{Ra} to rotate Lat ra-tas = a wheel, ra-tis = a ship, ro-tare = to rotate. Cel roth, Lith ra-tos. Ger ra-d-a wheel, Ratha = a car moving on wheels) was a

powerful instrument of offence. Aksha (3, 58 17) is the axle on which the wheel of the car rotates VAg ak to drive Gk ag ein-to drive ak son-an axle Lat ag ere-to drive axis-Inth cazes-Lat axis-Gh. axon-O Ger ahaa-Ger achae-Eng axle. Nabh. (1, 164, 48) is the navel, the nave the central portion or hub of a wheel through which the axle passes Nabh-to swell. Skt nabh as-the sky Gk neph as-cloud, ornph alos - navel bos of a shield Lat nubes, nimbus - cloud umb ilicus - navel; umbo - a boss. As naf a - nave of a wheel; ela-nafu Ger nabe, nave Pruss is Or nombril, navel Cakra m kar to curve is a wheel circle kri mi - a worm. Gk kvl los-bent kykl-os-a circle kyl indros-s cylinder kri kos-a ring Lat. cir cus a circle cur-uns bent Russ, kri-vite to bend krug = a circle koleso = a wheel. As. hweel hring = ring O SI kolo-a wheel Yuga (8 59 17) is the yoke, a frame of wood joining oxen or horses for drawing from -yug-to join. Skt yuga yugala Gk. zugon - Lith. jungas - Lat. jugum -Goth juk - Ger Joch - Russ, igo - a yoke, pair couple. Yok-tra (8 33. 18) is the leather thong used for yoking the chariot Dhanvana wins for us the kine With Dhanavana we win battle With Dhanvans we become victors in hot encounters. Dhanu brings misery to the enemy With Dhanvani may we subdue all regions (6 75 2) Archery was the main offensive weapon of the Aryans. Riding on fleet horse or speedy chariot, archers could attack the enemy from distance Dhanvan (Av thanvare) is from V Dhan - to strike. Skt Dhanu - bow Gk. them em - to strike Lat. of fenders - to strike hurt. /Bhuj -to bow bend. Skt bhuja-arm for it is bent; bhumngaserphant which is coiled Gk. phyg e-flight. Lat. fug-a-flight AS bh gan-to bend, boga-a bow Ger bogen-a bow Dha nurvana, the bow has possibly originated from the above roots Jvs - Av 1ya - Gk bias is the bow string made of ox hide (6 78 3) Ishu-Av 18u-Gk. 108 was the arrow shaft that was tipped with deer horn, or iron and often smeared with poison (6 75 15) The Scythians used to dip their arrow heads in decomposed blood or snake venom in order to make the wound mortal. The primitive tribes, still use strychnine and acouste to poison the wounds or drinking water Saru (1, 179 9)-the spear is the Teut. haurus (sword) Skt. asi - Lat eugis and Gk,

aks ine = sword Skt Sastia = Gk kestos = javelin, Skt. Parasu = Gk. pelekys = Assyr pillaku = axe Bronze double axe was sacred to the Mycenaeans (a branch of the Caspian) Speai (strakti; 7, 18, 17), lance (strika: 1, 32, 12), missle (didyu: 1, 71, 5) Senā, Av haena, is aimy

Sports and Plays-Hunting has been the favourite sport of the Aryans, Primitive man depended on hunting and fishing for the supply of animal food Later hunting is accessory to agriculture, provides variety in the monotonous vegetable diet or is requirred to protect flocks and herds against predatory beasts: and since then it has been surviving as a sport for the powerful people Primitive agriculture has been and is still the work of women While men are hunters They hunt by traps, snares. nets, wooden clubs and bone-tipped spears Hunting was known as mrigaya (8, 2, 6) Mriga was any wild animal—Av meregha —and later deer Minga bhima is terrible animal, that is lion (1, 190, 3) Mriga mahisha is buffalo (9, 92, 6) Mriga haste is the animal with hand (prehensible proboscis), that is the elephant \(\sqrt{Marg-to stroke}, \) to milk, to seize Skt mrigato stroke, mārga - a trace, mrīga - a wild animal, deer, mrīga-yā = seizing by chase Gk marp-tein = to seize, a-melg-ein = to milk Lat. mulc-ere = to stroke, mulg era = to milk, marg-o = a boundary Lith milszti=to stroke, milk. Ger melken=to milk, mark = boundary As meolk = milk, mearc = boundary. Skt kheta=hunt from \(\seta \) kad=to fall Skt cataya=to fell, to drive Lat cad-ere = to fall, ced-ere = to go away Gen hetzen = to hunt, to bait A snared lion (simha) leaves the trap that caught him (X, 28, 10) A lion is trapped, ambushed and captured (5, 74, 4) An antilope was ambushed into a pit (X, 39, pits are dug and their surface is covered with leafy branches of trees When, the bushes are beaten the animals while running to escape fall into these hidden pits, and there speared through or clubbed to death) Buffaloes rush furnously when wounded by arrows (X, 51, 6) Elephants are also trapped (X, 40, 4) A hound (a hunting dog) captures a boar (vaiaha) by biting him in his ear (X, 86, 4) "Let not the falcon kill thee or the eagle (O Kapinjala-partridge) Be thou beyond the arrow shots of a heroic archer (2, 42, 2) Games were cought by shooting through arrows (2, 42, 2), traps (pasa: 3, 45, 1), noose (nidha = 9 88 4) nets (jāla Av X, 80) pita (X 28 10) and hounds (X, 86 4)

Horse and Charoit Race—Horse Race (Vija psya) was popular Successful horses in the races won prizes. O Soma give us power and strength as a winning horse gets prizes in the race (9 109 10). There were regular race courses (7 103 8) where horses enter for competition. The conquering courser reaches its goal (9 74, 8). The coursers who have triumphed in the contest have become famous or have won prizes are praised with songs (X, 74, 1). O steeds hasten for the prize; attain the goal. For each prize drink of this mead and regice in it. This steed speeds this swift course bound at the neck, shoulder and the mouth. Displaying his strength. Dadhikra springeth slong the bends of the ways. After him as he hastens in triumphant speed blows the wind as after bird's wings in triumphant speed blows the wind as after bird's wings in triumphant speed blows the wind as after bird's wings in triumphant speed blows the wind as after bird's wings in triumphant speed blows the wind as after bird's wings in the mouth, proposed wind the proposed blows the wind as after bird's wings in the green of victory near Help our car that seeks the prize. And make us victorious Do not disgrace us Broad is the race-course (kasthi). The prize is announced. The barriers are opened wide (8, 69 (80) 4-8).

is announced The barriers are opened wide (8, 69 (80) 4—8) Numerals —Skt eka ~ Khatti aika Av asva, Gk. eis, Lat unus Goth ains Lith venas, Toch som Cel. cen—Eng one. Skt dva Gk. dwo Lat duo Cel. dau, Lith du, dvi Goth twai —Eng two Skt. trayah ~ Kh teras. Gk treis Lat tree Cel tri. Goth. tries Lith. trya Toch, trai—Eng three Skt. catvarsh ~ Gk. tessares Lat quattuor Cel. cethir Goth fidwar Lith. tethir Toch stwer Skt panca ~ Kh panca Gk pente Lat quinque Cel. colo Goth. himf. Lith. penki Toch pis—Eng five Skt. Sati—Gk hex, Lat sex, Cel se Goth sains Lith seen Toch skas —Eng six, Skt. sapta—Kh satta, Gk hepta, Lat. septem Cel. sacht Goth. sibun. Lith septini, Toch sukt — Eng seven Skt. satan—Gk hocto Lat coto Cel. ceth, Goth altan Lith. saxtuni Toch. okt—Eng eight Skt nava—Kh nāv Gk. hennea Lat. novem, Cel. noi Goth nium Lith. devyni, Toch. nii—Eng nine Skt dasa—Gk. deka, Lat decem, Lat centum Cel. cet Goth. hund Lith. simmas Toch. kants.

In calculations the Aryans used multiples by 10 (decimal system), while Babylonians used multiples by 4, as 12, 16, 60, 64
Dancing and Music.—Dancing (nritya) was very popular It was usually accompanied by music Sankushka, an Alpine says "Let us have dances (nritage) and merriments (hasaya) which prolong life (X, 18, 3) Of course the Alpines have always been joy-loving, light-hearted cheeiful people. That the poet is Alpine is proved by the fact that in the same hymn (X, 18, 10) earth bunial is described, which was an Alpine custom (burial in round burrows), while the Aryans burned their dead. No doubt dancing is an excellent joyous playful amusement. The co-ordinated bodily movements in rhythmic undulatory waves enhance metabolism, stimulate emotion and imagination, stir up sexual eiethism, bring forth self-poise, balance, sense of beauty and haimony. Dancing therefore is is a sport, play and art—all combined. But it originated as a form of religious worship to please gods, especially of fertility deities. Dancing in the beginning was a pantomime sexual act. By its sensous and voluptuous appeals it pleased gods and spectators. It was associated with the worship of Egy. Oshis and Isis, Baby Bāāl and Ishtar, Greek Dionysus (god of vine and dimking = Soma) and Aphrodite, Roman Venus and Flora, Khatti Teshub and Mā, Hindu. Siva and Pārvati. Frenzied dancing was usually followed by sexual orgies. The Bacchantic women followers of Dionysus were chiefly Maenades (Maceneans = Caspians) and Bassarae (Bessi = Alpine), both of Thrace where the cult originated. Latei dancing developed into bodily flexible rhythmic motion which added health and beauty to their physical forms, joy and charm, art and sociability to their mid Children born in temple precents where women went to get relief from labour pains were usually dedicated to detries Males were trained to be state soldiers and priests, and females as piestesses And it was thought that gods were pleased not only by prayers and food-offerings, but also by dances and sexua

strengthen; and brahmna might have developed from the same root, meaning which (prayer) sustains and supports, 9, 112, 17) sacrificers; with hard seasoned wood, with feather broom to enkindle the glowing forge the smith (karmara) with anvil is seeking those who have stocks of gold (to make ornaments 2) A poet (Kārur) I am Dad (tāta) a physician; Mamma (nand) is a flour miller of millistones in different ways for wealth we follow our desires like kine (8) (The next verse seems to be a later adition) Horse desires (to draw) an easy (sukam) vehicle (rathan) under-secretaries (Upamantrinah who have very little work and responsibility wish to begule their time by idle talks and) jests (hasanim) The penis (seps - /Su-to generate Seps - penis Sunus - son-Gk. hios-Inth. sunus - Russ suinu Goth sunus - Ger sohn = son, longs for) harry (romanwantam) cleft (bhedan - vulva); water the trog (manduka 9 II, 14)—Sssu Angerasa. The chariot builder (rathakara) could make chariots (rathan) where eight friends (ashta vandhu) could be accomodated (x 53, 7) Indrani complains that deftly wrought delightful (priys / Pri-to love Skt priti-affection, priya-dear prema-love; Lith pre-tellus -Buss pri atale = Goth. frijonds = Ger frennd = friend. Swed frande=a kingman. Goth. fri jon. As. fri gu = to love) wooden work (oyakta tashtanı) was spoilt by Kapı—monkey (× 86 0) Carmanna (8, 55, 3) Carmanla (8 5 88 VSku-to cover Skt carman skin, leather Gk skeve clothing, ku tos skin Lat cu tis skin scu tum a shield As hy-d hide skin) is the tanner of leather Tanning (mla mil) and certain details of stretching (Sat Br 2, 1 1 9) wetting (1, 85 5) hides refer to the process of manufacture The leather thong (yoktra 3 33 18) was used for yoking the chariot The bow string (Jya 6, 75 8) was made of oxhide Leather bags (drits 1 191, 10) were used for holding curdled milk, beer and soup The shields were made of ox hide Curnes and breast plates were msde of leather. The body armour was made of leather and bronze plates. Smows were used to bind the feathers upon the arrow and the sword was sheathed in leather. The charnots were protected with shields of leather. The box of the charnot was fixed to the axle with thongs of leather (6 47, 26). The horses were yoked to the pole of the chariot with

leather straps and the reins were of leather Sometimes the horses were even covered with leather robes to serve the purpose of armour Drums were made with leather heads the tanner was an important profession in ancient times. Awl (ārā, Lith yla, O Ger ala) is a pointed bronze to pierce holes in leather Smith (Karmara) produces goods with blast and smelting (x, 72, 2) Smelter (dhmatri) fans the forge from which smokes (dhuminah , Dhu-to agitate, fan into flame Skt. dhuma=smoke, dhuli=dust Gk = to rush, thy-os = incense, Lat fu-mus = smoke As du-st = dust) curl up, and the smelter on the anvil puts the metal into shape (5, 9 5) Sādhārani was a public prostitute who served the sexual needs of those who could not procure wife and for those who craved for varieties of experience Vesya were those who for gaudy diess (vesa) sold their physical charms Jahi—the prostitute—dangerous to health and mind (Farg 18, 62) Giāhi—the sexual excesses in union with a prostitute, brings consumption (×, 161, 1). Sabhā—Sabhā was the deliberate clannish assembly (Ger. sippe = kinsmen, Goth Sibja = Anglo Sax Sib) possibly originating among the Sabins and Sueves It is the Latin septum (Eng sept, later sect) which means fence and inclosure (Gotra), containing a number of Janas with their slaves Sabhā later meant any assembly of people, and even the gambling board (x, 34, 6) Village (grāma) assembly is indicated by Sabhā (Vs 3, 45) It seems later that the rich and influencial patriarchs of families had light of deciding the policy of peace or war or to devise means of preserving internal order and discipline. People of fine appearance (su-rupa /Ruk, Luk=to shine Skt ruk, ruci=light, rupa = bright, lupya = white, for which silver is called rupya, Rupee-silver coin; rajani-moon-lit night Gk. leuk-os-white, lyk-nos-lamp Lat luc-ere-to shine, lu-na (for luc-na) = moon Goth liuh, As, leoh-l=light) rich, in horses, chariots and kine, followers (sakhā VSak=to follow Skt =a female companion, sakhya=friendship Lat follow; soc-itus-companion Lith sek-ti-to follow Gk hep etes = attendant) of Indra, go to the sabha to the delight of all (8, 4, 9) "All friends rejoice in the friend who comes triumphantly with fame and success from the Sabhā All his defects

are overlooked. He becomes a food provider, and he is again eager for victory in another competition $(\times 71, 10)$. It seems that success in Sebha as in modern representative institutions, possibly through persussive oratory not only brought fame and nepotism, but also position and wealth. Eloquence of speech may not be seen or perceived by every one. But to a decerner, Vak (speech) reveals her beauty as a well-dressed ardent wife to her husband (x 71 4) Some grants (to his worshipper) a cow a fleet steed an active son skilled in housework sacrifice and in sabha and who brings glory to his fathers (1 91, 20) Let both the assembly (sabhī) and meeting (samit) the daughters of Prajāpati be favourable to me Let every one of those gatherings respect and aid (vote for) me May I deli ver instructive and eloquent speeches, O Fathers at those meetings (Av 7 12 1) We know thy name O Sabha thy name is a debating exchange (narista) Let all the members of the Sabha give me their accordance (2) Among the assemblage, make me the leader and the expert And Indra, make me conspicuous in the whole conference (Sam sada Av 7 12 1 3) Sabhā was the deliberate assembly of well born (stgātā 7 1 4) influencial patriarchs (nobles) while Samiti was the Congress of all adult men of martial age. \Sam. = Goth sami=Lat. sımul-Russ samun-Gk omos-same Gk hema Lat sum ul = together Samiti = meeting together of friendly warriors. Lat. mutu us = mutual, Goth mis-so = reciprocally /sad = to sit Gk hezomai-I sit Lat. sed-ere-to sit Lith sedeti, Russ sidiete-Ger sitzen-to sit Sam sad-meeting together of sitters - a conference of deligates Upa-ni sad = to sit down near to another to acquire esoteric knowledge. Sam hits. -a collection of useful things) Go together and vote unani mously Let your minds be of accord as the ancient gods peacefully at down in their appointed places (× 191 2) This council (mantra /Man=to think. Skt man as=mind; mati -thought mi mamas -speculation; mentram -counsel Lat. mens men tis - thought Min-erva - who thinks - the goddess of wisdom Gk men-os = intellectual ardour metis = wisdom; man ia-mental excitement; mantis-inspiration Lith minate -to think 182-mintis-intelligence Ger muth-courage As. mod-mood) is equally open to all. This Samiti 15 common.

to all. So let your mind be concordant and your hearts be united. Common counsel (possibly of an executive body), I lay before you and it demands your common consent (3) Let your resolve be unanimous. Let your hearts beat in unison; unanimous be your resolve and your friendly decision (× 191, 2-4). Let this Samiti give their consent to your royal authority (Av 6, 18, 3) It seems that the consent of the Samiti was essential to establish a sovereign Samanam was the gathering in which particularly well-diessed youths for amusements and love-making assembled before whom dancing, singing, athletic displays and dramatic performances as Pururavas and Urvasi (×, 95), Yama and Yami (×, 10), bride and the bridegroom (×, 85) etc were shown (7, 2, 5, ×, 86, 10) In these pleasant entertainments young women smilingly with cunning love intrigues took their parts (4, 58, 2) In Buddhist times these hilarious parties were called Samajjā (Dighā Nikāya) and in Arthasastra (2, 25, 13, 5) as Samāja when unrestricted drinking prevailed for 4 days

CASTE -In Vedic times there was no caste formation But there were numerous professional guilds. The conquering and ruling tribes (rājanyam: \(\text{Raj} = \text{to govern, to stretch Skt. rājan} \) -Lat, rex = king Lat regare = to rule; reg-alis = regal, royal Gk oreg-ein to stretch) began to assume the title af Kshatriyas after the mighty conquering and ruling people—the Khatti, though belonging to different ethnic groups Clever men (Skt. nara, Khatti inar, Gk aner, Av nairi) who could make fire, recite magic formulas (nivids) and make new prayers which were supposed to appease gods and bring success and prosperity began to be known as Biahmans, after the murmuring tone of their utterances 1/Bhiam = to hum like insects Skt. bhramara = humble bee, brahman = prayer which when uttered rapidly and indistinctly which is usually done to keep the magic formula secret and to avoid being found out, has the droning sound Lat frem-ere to murmur As brim-sa = a, gadfly The names of all Brahmana families—Angirara, (Alpine) Bhirgu,) (Bryges Caspian), Marichi (Caspian), Vasishtha (Aryan) and Atri (Semite)—are associated with fire making /id = to kindle Skt indh = to kindle, indhana = fuel Gk eithein = to burn. Lat ignis-fire, As ad-funeral pile, Skt angara-Gk anthrax (anthracite)=charcoal like Angirass=arising from ember /Bhraj=to ahine, to fry Vajra=lightning thunderbolt. Gk. phiesg em=to burn pholks-flame Lat fulg-ere—to shine. philip cm to burn pholose-name Lat full-ere—to shine, full ure thunderbolt Ger As blink-en-to blink; blitz-light-ning—to shine. Mar-to shine. Stt Marichi-a ray of light, Gk. mar-mat-eog-sparkling Mars-glorious. Lith merk ti et blink. As morg-en Ger morg en ethe glimmer of dawn (morn) van us-to shine Stt. vas inta-most brilliant excellently shinning ushna—hot Usanas Sukra—the Venua. the name of a Bhrgsva. Gk. as tus-a hearth ay-on to kindle. List. Vesta-the goddess of fire sur-ora-dawn, ir ere to burn. Ad Atato est Gk. ed-em-Lat ed ere-Goth. it-an = As. et-an = to eat. Atharvan (Av Athravan) is fire priest. Av star ather-fire Lat atrium (plu atria) was originally hearth fire-place that is kitchen blackened (ater-black) with smoke Gk sitho-flame burning sith ale-soot; sith aleos -darkened by soot; anthrax = angira = burning charcoal, ember anthra kites resembling charcoal anthracite Vedic Atharvan Angirasa burning coal from five the name of a fire priest family of Vaisili Atri, another fire priest family is derived from the same unknown Arvan root from which Lat. ater = soot, atrium - plural of atrium - hearth Gk. aitho - flame, Av atar (Farg 16-45 - fire god) - fire, have been derived. The Brahmms had white (gaura) complexion, gray (pingala) eyes and golden hair (kapila kesa Patanjali s Mahabhasya 1 11.) The connection between \(\frac{1}{2} \) Ad-to eat with Atri seems to be overstretched as fire is devourer of everything. It appears that Atri is a non Atyan tribe. According to traditions. Atri is excluded from the original Brahmana clans which are only four in number—Angiras Kasapa Vasishtha and Bhriga (Kinti P ch 297 17) Many members of the ruling families finding court his unpleasant due to succession disputes mingues and revolutions, adopted lucrative and influencial occupation of presthood Ikshvaku Mindhatris fourth and fifth descendants or presence it is a salidater is courte and fifth descendants wishing Vriddinas and Haritas adopted presthood and joined the Angras. When Navaga's kingdom was destroyed, his fourth descendant Rathithara became an Angrasa priest. Hathaya Vithavya being defeated by Pratardhana of Kisi became a Bhargaya priest. We owe the second Mandala of

Rigveda to his son Gritsamada and his descendants Gāthina Visvaratha became a pilest when his Kānyakubja kingdom was devastated by Haihaya inioads, and he assumed the name of Visvamitra and founder a priestly gotra of his The third Mandala of the Rigveda is mostly the composition of the Visvamitras Kanva, a son of Dacian Ajamira became an Angirasa priest, and Eighth Mandala is mostly the composition of Kanva Medhatithis Almira North Pancala king Mudgala's younger sons adopted priesthood and were known as Kautha Maudgalya Brahmanas and affiliated themselves to Anguasas Of the same dynasty Divodasa's son was Mitrayu Mitraya's son was Maitreya Somaka son Šrinjaya succeeded him, his other sons became Maitreya Brahmanas and affiliated themselves with the Bhargavas His Bhargava Jamadagni became a warrior son Rāma was a renowned fighter Drona, an Angirasa, was a teacher of the Pandavas in aichery and he by his prowess acquired the South Pancala kingdom Not only there were intermarriages between the Kshatryas and Brahmanas, but professions were adopted or interchanged as circumstances demandfluidic condition The social organizations were ın Ambastha was Palae-Alpine Usinara Sibi tribe ruling in the Punjab When they lost their kingdom, many of the Ambasthas adopted medicine as their profession But medicine as a profession was no monopoly of any ethnic group. Almost all tribes had their own medicine men as their own carpenters who made war chariots, their own leather tenners who made leather for war and domestic needs Horse-bleeding, chariot making, tanning and smelting required special training and technical knowledge Every tribe had them and prized them Alpine Pani became vanik the trading class. Alpine Bessi after they dost their kingdom settled in the land they occupied as farmers and cattle-breeders and they have been known as Vaisyas According to Gopatha Br Vaisyas were fair (sukla) complexioned Chudes, a mixed tribe of Australoids and Negroides, and whose settlements extended from Baltic Esthonia through eastern slopes of Uials, western spars of the Altai up to the south-westeren parts of Siberia, on the banks of the Yenisei, and whose ancient sites show that they were skilled in mental-

working fruit-raising irrigation works and raising of swine have been known as Sudras. They made the Nanda Dynasty a great imperial power The conquerors took slaves from the conquered. They were employed not only for grazing the cattle, tilling the soil doing domestic work of drudgery but also in skilled crafts so that they might be useful to their masters. Especially slave girls were valued. Purukutsya s son Trasadasyu. made a present of 50 damsels to Sobhan Kanya (8, 19 86) A protty woman adorned with golden ornaments is given to Vasa Asva by Prithusravas (8 46 88) These slave girls were of different races. Many of these girls were certainly utilized for the illegitimate sexual gratifications of their masters. This naturally originated in the development of cross breeds. But cross breeds did not form castes They were absorbed usually by their parental stocks. The different ethnic groups adopted occupations best suited to them, and in course of centuries they became hereditary To keep the purity of blood the conquerors tried to restrict inter marriage with the aborigines who were certainly so different in physical appearance and mental equipment Many of the aborigines had dark complexion, Aryans and Caspians there was free-interchange of marriage and social relationship Even the Palæ-Alpines who were generally absorbed with the Vaisyas and at last the Sudras (Chudes) were incorporated into the Aryan social polity Chudes were bleached people though they had thick lips, where the research are the sudras controlled in the property of the second second polity chudes were bleached people though they had thick lips, short flat nose and somewhat prognathous laws. They were possibly somewhat mixed with the Mongoloids and Palse-Alpines. These were all more-or less fair complexioned people, almost, of similar culture The aborigines who were dark complexioned and broad and flat-nosed were beyond their social origanization Various ethnic tribes also immigrated in different waves. When the later groups came they found that the former groups were mixed as they could bring fever women with them. Their racial pride and arrogance made them look down upon the former arrivals This also caused social demarcation which crystalized into the formation of castes and sub-castes. According to Mahl Bharata (Santi P Ch 1:8, 5) the Brahmins were whites (sita = blonds) Kshatriyyas were brunets (lohita),

omfices in his head-the ears (karna-Lat, auris-Gk. ove-Russ. ucho - Ger Ohr) eyes (calshu - Skt. aksha - Lat. oculus -Gk okos-Russ. oko-Ger auge) nostrils and the mouth (mukha - Ger mund Lat mando Fr manger - to eat Lat. mentum -chin (6) Who has put within his laws (hang) an ample tongue (11bva) and given to it a great voice (vacan-Lat vox-Gk epos (7) What god has produced his brain (mas tuka) the forehead (lalata) cheek bones (kakatika) and the eranium (Lapala - Gk. kranion - the skull 8. Gk kapane felt helmet Lat capadulum - headdress) Numuerous ples sant and unpleasant things (priya / Pri - to love. Lith, pretelus - Russ prustele - a friend) - dreams (svapnam / Svap to sle Lat sopor - sleep Gk up nos - sleep Russ. spate - to aleep eDAs. swein - a dream) weariners, delights and pleasures -where does man get them from (9)? Who has woven his life (pranam)? Who has given him expiration (apana)? Who has but into him respiration (samana Av x 2, 118 An -to breathe anana - breathing water (apa) containing air; anila moving air : samana - respiratory balance Lat anima - breath animus - courage, mind Gk anemos - breath, wind As usanan - breathe out) How has he got fluids which are con stantly moving circulating like a river-alkaline golden-coloured (bile) ruddy (blood) dark (venous) turbid (lymph light straw coloured fluid) in all directions (12) ?

Yakshmž (× 161 1) was a fearful disease. It was of two kinds—anata yakshž (tuberculosis of some internal organs without mainfest symptoms of coughing) and rdja-yakshmž (pulmonary tuberculosis with perhaps hemorrhage). Tuberculosis is caused by soid fast tubercie bacillus in man cattle and birds. No race is immune to its attacks. But the Nagroes and Mongoloids seem to be easily susceptible to it.

The bacilli may invade any organ of the body of a person, predisposed to it by hereditary syphilis, maintrition especially of protein and tubercles and ulcerations may be formed there (Av 2 83 X 1637) It may be that in ancient times the idea was that the body was seized by an evil spirit (Grithi X 151 1; \(\sigma \text{Gar} = \text{to devour} \) Skt. grahana = seizure; ajā-gara = a goat-awallower—boa constictor List, vor are—to devour Gk bora—food Skt gar-gara = a whiripool. List gurges—a

whirlpool, gula = guillet, glutire = to gulp down) which needs to be expelled by magic amulets or incantations, and the interpretations we give were not originally meant. But perhaps they did not lack in clinical observations "Forth from the eyes (the inflammation of the lachrymal sac-dacryocystitis, is produced in tubuculosis when a tubercle or tuberculous ulcer is formed in the sac), nostrils (single tuberculous ulcers settled by predilection on the cartilaginous septum low down; Tuberculoma and diffuse tuberculous infiltration of the nasal mucosa with final ulceration may prove destructive, leading to perforation and loss of bone), ears (tubercles may be formed and tuberculous ulcerations of the petrous bone of the middle ear, leading to nervous deafness), jaws (in tuberculosis of the jaw, the diagnosis depends upon the insidious onset, the involvement of the ascending ramus of the lower jaw, the obvious tuberculosis of the lymphatic glands of the neck, and the formation of a cold abscess beneath the temporal muscle, due to the wandering upward of the pus between the pterygoids and the bone), brain (tubercle is the most frequent neoplasm which invades the biain, in children the majority of lesions (paralysis) referable to cranial nerves are secondary to tubercular basilar deposits), the tongue (tuberculous ulcerations of the tongue may be present with uneven edges, without punched out appearance of the specific ulcer with or without lip ulcer), I eject for thee the Yakshmā of the head (X, 163, 1) From thy $griv\bar{a}s$, neck (scrofula, there is a strong tendincy towards chronicity when the neck glands are involved and in most superficial adenoids caseation and suppuration is the fate of the invaded glands), ushnihās – nape (cold abscesses of the cervical spine being situated behind the thyroid and behind arteria carotis), Kikasa—Veitebrae (there may be tubercles in the spinal cord The caries of the spine is known as spondylitis tuberculosa. In it the vertebra has softened enough to give rise to a projecting angle or gibbus), anukyat back-bone (caries on the ribs), ansā—shoulders (a subdeltoid bursitis may be due to acute infection, to trauma or to tuber-closis. An inflammation of the shoulder joint, omarthritis, may be due to chronic infection of tuberculosis or gnmma), Vāhu—forearms (chronic arthritis of the elbow

point may be due to tuberculosis syphils or other forms of chronic infectious arthritis). I eject for thee the Yakshmi of the arms (X, 163, 2). From the heart introduce—hrid—Gk. kardia—Ionic kradio—Lat cor—Ger Herz /Kard kurd—to throb Skt. kurdana—play leaping kroda—shaking with anger Gk. krad ein—to quiver. Lat cardo—hinge (gate swings). As hearte—heart The tuberculous patient has low blood pressure, small sized heart. Tuberculous pericarditis is rarely primary), Kloman—lungs (chronic ulcerative Phihisis is the commonest form of pulmonary tuberculosis) haleksni—pancreas (tubercles of the pancreas is only found ap c cases in generalized tuber culosis) matasnas—kidneys (tuberculosis of the kidneys ranges from one or more small tubercles embedded in the stroma to from one or more small tubercles embedded in the stroma to from one or more small tubercles embedded in the stroma to the condition where the entire kidney substance is changed into a huge tubercular mass) spleen (pithan-Lut, splen-Gk splen chronic tuberculosis involving the spleen is rare but is sometimes met with and, may cause enlargement is in Kala Azar and syphilis) liver (yaknt = Lut, jecur = Gk, hepati kos Yaknt may be a variation of saknt = internal secretion; the liver may be involved in a tuberculous process arising either from extension of tuberculous disease from a pagibloring organ—kidney lymph gland—or by a material arising either from extension of tuberculous disease from a neighboring organ—kidney lymph gland—or by a metas tatic deposit of tubercle bacilli in the hepatic vesuls. How ever it is very fare and is seldom reognized during life) we ever it is very rare and is seldom recognized during life) we eject for thee the Yashmi (Av 2 30 8) From the entrails (anthra-Gk enteron-Lat enters. Most primary tuberculous infections of the intestine are found among babies due to tuberculous milk or contamination of food with tuberculous tuberculous milk or contamination of food with tuberculous material without any symptom of pulmonary invasion. The baby presents the symptoms of acute or sub-acute gastro entertis The wrating is usually rapid, loss of strength prompt fever and increasing anemia striking Secondary tuberculous enterities is present in all cases of advaced pulmonary tuberculous in which there is cavity formation. The gut duda—the lower end of the gut—the rectum _Gu—to pour Skt. gu pta—concealed; gu hya—hidden Gk koe—a stream Lat. fo-ns—a fountain Ger gosse—a drain. Fraterial Lat. fo-ns—a fountain Ger gosse—a drain. Fraterial Lat. fo-ns—a fountain Ger gosse—a favournte seat goutte—drops of liquid, ischio-rectal fossa is a favournte seat of tubercular abscess) Vassishtho—Fallopian Tubes (salpingitis

tuberculosa is a common in women, usually bilateral. The masses are easily felt on bimanual palpation, but should not be confounded with gonorrheal lesion, udara—abdomen (tuberculous peritonitis spreads in the larger number of (tuberculous peritonitis spreads in the larger number of cases from a pre-existing deposit In 50 pc of cases in women it is a part of genital tuberculosis, and the spread from the Fallopian tubes is most frequent In children the intestines may supply the infection), Kukshi—pelvis (tubercular caries of the pelvic bones are common), Plass—bladder (tuberculosis of the bladder, prostrate, seminal vesicles, testes, ovary and the uterus is comparatively rare though tuberculous epididymitis is fairly common), nābhi—navel, I eject for thee Yakshma (Av. 1 33.4) From bones (asthi-Gk osteon-Lat os The bones most frequently affected by tubercular caries are (1) those of the spine, (2) the bones of the pelvis, (3) are (1) those of the spine, (2) the bones of the pelvis, (3) the other bones as calcis, jaw, femur, ribs, skull, sternum, tibia—may be affected. The process begins in the bonemariow), marrows (majjā=Av mazga=OSl mozgu=Teut marg=Ger Mark=Fi moelle), sinews (snāva=Teut senawa=Ger schne), dhamani—vessel (every local tuberculous heid, closely related to an artery, vein, thoracic duct or lymphatic stream represents the link between the primary focus and the generalized infection—miliary tuberculosis), nerve (nāri=Gk neuron=List nervus=Fi nerf Peripheral neuritis of tuberculous origin is amenable to treatment when single nerve is involved. But polyneuritis is serious. Invasion of cranial mvolved But polyneuritis is serious Invasion of cianial nerves is one of the early evidences of tuberculous meningitis), skin (tuberculosis of the skin may assume several different forms (1) Lupus vulgaris most often attacks the face—nose, cheeks, upperlip, the neck, trunk and extremities may be affected (2) Scropuloderma beginning in the subcutaneous layers or in the deeper layer of the cutis), hands (hastha=Teut hant—Ger hand), fingers, nails (nakha=Lith nagas=Russ. nogote=Ger nagen=Gk oneks=Lat ungu-is \(\sqrt{nagha} = \text{to} \) bite, scratch, gnanw Skt niksh= to scratch. Gk, nusesein= to gnaw) I eject for thee the Yakshmā (Av, 2 33 6, X 163 4-5) Consumption is the wasting of the tissues of the body, which is usually the case in tuberculosis of the lungs or intestines. It is from Lat con (together) sumere=to use. involved But polyneuritis is serious Invasion of cianial

√sush to dry to wither 8kt sushka adried up and, seahaka a one who sucks out the juice and causes withering seshana adrying up Av hush to dry Gk huein to wither As sear withered

KASAI Av 5 22 11 12) is the cough (Bronchitis Kisa - Lith. (Kos-ti-to cough Ger keuchen - to pant to grasp for breath) Do not make them thy (fevers) companion—the baldsa (asthma) Kiss (bronchitis) and udyuga (incough) O Fever with thy brother balasa (asthma) sister Kasa (bronchitis) and with thy cousin paman (scables) go to vonder foreign peoples (Av 5 22 11 12) Acute Bronchitis is usually associated with slight fever cough chilly sensations and the undue harshness of the respiratory murmurs Chronic bronchitis is the result of lasting inflammatory process involving the bronchial mucous membrane and characterized by the occurence of destructive changes in the superficial epithelial layer with the thinning of the mucous membrane of the larger tubes as a retult of the atrophy of the muscular coat. It is rarely of primary origin In vast majority of cases it originates in men past middle age as the result of pre-existing or chronic heart liver or kidney diseases. Asthma shows hereditary predisposition. Periodic attacks of Asthma often occur during the course of such chronic maladies as organic heart disease nephritis, rheumatism syphilis and emphysems. Hiccough is due to spasmodic contraction of the diaphragm. It occurs in diseases of the abdominal viscera—gastritis dilatation of the stomach diseases of the liver chronic nephritis gout diabetes dysmenorrhea, pregancy With typhoid fever it is almost always serious It may be a symptom of intestinal perforation, hemorrhage or deep toxemia. Hiccorgh with inflammatory diseases with the abdominal cavity as appendicitis is sugges-tive of grave consequences. By scables is meant that form of ascariasis dermatatis accompanied by intense itching caused by the burrowing beneath the skin of the itch mite— Sarcoptes scabiel

TARMAN (Av 1, 25) is Malana. Salutation to thee O chilly Takman (sitaya Takmane Malanal paroxysm begins with chillings increasing until the whole body shivers and the teeth (danta-Pers dandan-Luth dants-Lat dens-Gk.

odoys, Goth tunthus = Teut zand = Ger Zahn) chatter with cold, the face is pale, the fingures livid and the nails blue, cutaneous vessels are constricted and the surface is cold to touch, but the rectal temperature begins to rise a copious flow of clear watery urine) Seek thou Takman the buxom Sudra damsel, her O Takman do thou shake up a bit (Av. 5, 22, 7) Homage I pay to the fierce (rura) heat (Malarial paroxysm of the second stage is attended with dry heat, high temperature and thirst, the skin is burning and flushed. The urine is now scanty and high coloured. The third stage is sweating which is profuse and may be drenching The urine is scanty and deposits a thick brownish sediment of urates on cooling The three stages of paroxysm lasts between 6 to 12 hours) To the one that falls on every alternate day (after the intervals of 24 hours quotidian due to the invasion of Plasmodium falciparum parasite which is the most malignant type, because of its greater output gamets in the blood, and which needs a very high temperature and about 6 days to complete its life cycle), after the interval of 2 days (after 48 hours due to the invasion of Plasmodium Vivax which can thrive in a wide range of temperatures and known as Tertian), after every third day (tritiyaka = tertian, after 72 hours, due to the invasion of Plasmodium malarae known as quartan The fever chart itself is no index of the malarial parasite, for two broods of P vivax and 3 broods of P malarae, or mixed broods make the fever quotidian or intermittent Av 1, 25, 4). The fever after the third day (quartan), after two days (tertian) and intermittent (possibly typhoid or puerperal) of the summer and autumn (estivoautumnal fever), of the chilly and hot stages, and of the rains, do thou destroy To Gandhara (Kandahar), Mujavants (in the foot hills of Altai Range), Anga (Northern Bengal) and Magadha (Bihar), like one sending a person a treasure, we commit Takman (Av 5, 22) Takman raises heat (temperature) of the body and makes the body yellowsh (jaundice Av 6, 2, 1-3) Hariman—(1, 50, 11, Av 1, 22) is Jaundice Icterus jaundice is associated with yellow coloration of the skin and other parts of the body, often due to some derangement affecting the liver This yellow colour is due to the presence in the

blood of bile or some of its constituents. Any obstruction of the passage of bile from the liver into the intestines sooner or later results in jaundice the retained bile being partly absorbed into the blood. The stoppage of the bile into the intestines may he due to gallstones or parasites inflammation of the lining membrane of the bile duct or its stricture, or of the duodenum, or any pressure on them from without through tumours. The impediments to the outflow of the bile cause the distension of the liver and the bilary duct with the retained bile which is thus absorbed into the system. The first sign of jaundice is a yellow coloration of the white of the eye which is followed the similar tint on the skin all over the body The tint varies according to the amount of the obstruction of the bile. The urine shows the first symptom of the bile absorption It is dark brown in appearance and becomes greenish on standing. The stools are whitish or clay coloured due to the absence of the bile and due to undivested fats have an offensive odour Mild jaundice is observed in malaria syphilis. pysemia and in phosphorus poisoning. The jaundiced person becomes easily irritable, languid, drowsy and has usually a slow pulse Hridyota (Av 1, 22, 1) is the Heartburn-Pyrosis-charac terized by the burning sensation in the epigastrium frequently extending up behind the sternum to the pharynx and sometimes accompanied by the regurgitation of a watery acrid or acid fluid. Hridroga (1, 50 II) is Angina Pectoris, characterized by precordial oppression and discomfort with slight cardiac pain radiating to the neck and arm. In severe form there is usually intense exeruciating pain in the region of the heart. The pain radiates into the neck left shoulder and down the arm to the fingers, and sometimes to the right arms down the body There is a sense of cardiac constriction often with coldness and numbness of the praecordium and the fingures. The face is pale and betrays a feeling of intense anxiety The face and body are often covered with large drops of cold perspiration A sense of impending death is the characteristic symptom. Myocardial changes coexist with aortic insuffi ciency and adherent pericardium. The exciting causes of the attack are gastric distension or disturbance, strong mental emotion exposure to cold or muscular exertion. In acute difa

tation of the heart which takes place in fevers, dyspnæa, palpitation, sometimes praecordial oppression with weak and frequent pulse manifest as evidence of systematic venous stasis. In fatty infiltration which takes place in prolonged infectious fevers as tuberculosis or chronic anaemias, sensity, there may be bronchitis, vertigo, syncopal attack with feeble pulse

Jāyānya (Av. 7, 76) is the venereal disease, received from the Jaya (wife—or woman), and Apacita (Av. 7, 76, 2) is adenits Gonorrhoea is a specific inflammation of the urethra and other passages caused by gonococci which find entrance during coitus, spreading to all the crevices of the mucous membrane and setting free in their development a toxin which causes great irritation of the passage with inflammation and swelling. After incubation of 3 oi 4 days the acute inflammation sets in with profuse discharge of yellow matter (sarpi meha), with much scalding during micturition. The inflammatory process may extend backwards and give rise to acute prostatis with retention of urine and to the duct of the testis (epididymitis), thus preventing the passage of semen in powerprostatis with retention of urine and to the duct of the testis (epididymitis), thus preventing the passage of semen in powerful jets causes sterility. In about 2 weeks the inflammation gradually subsides, but a thin watery dicharge remains (gleet), but which also contains gonococci. A lingering gleet may be due to the presence of a definite ulceration in the urethra and this being chronic is accompanied by the formation of much fibrous tissue with narrowing and stricture of the urethra, thus making urination difficult. In the case of females the inflammation may extent to the Fallopian tubes, particularly during the birth of a baby, thus making her sterile (known as one or two children sterility). Chancroid (soft chancre) is a local contagious ulcer of the genitals due to the inoculation of the bacillus of Ducrey. The ulcer becomes a multiple soft sore about 3 days after exposure and as it increases in size, free suppuration takes place. In persons of broken down health, sore eats up the tissues rapidly and is called phage-daenic. The bacilli from the soft sore pass by the lymphatic vessels to the glands of the groin and set up there inflammatory chancroidal bubo (apacita in Vijānmi. Av 7, 76, 2) and which was incised in the centre for drainage (Av. 7, 74, 2).

Syphilis is introduced into the body through an abrasion;

usually on the genital organs during costus through a mobile protozoon of spiral form-Spirochaeta pallida A cartilaginous button like hardness (chancre) appears at the seat of moculation. It turns into an ulcer with an indurated base and edges, If the original sore is in genital organs the glands in the groin are first attacked (bubo) which become however indu rated and painless. This indurated inguinal bubo near the testicles (mushka) is called sipudru (wooden testicles Ay 8 12 7) Infection invades the whole system before the chancer develops. The skin eruptions break out These eruptions do not itch. Irritation of any mucous membrane is followed by papular eruptions with superficial ulceration. In debilated persons, especially in untreated cases, nodular inflammatory deposits are formed which are apt to break down and give rise to deep ulcerations. These are known as gummata. And they do not generally manifest before the lapse of a few years They are found in the liver testes, brain tongue, law muscles, the periosteum, the lungs and the skin. The gummata and the strings and magnify of cases are not observed, the virus being immunized by bodily resistance or attenuated by medi oal treatment. When both parents are syphilitic at the time of fecundation abortions are frequent at an early stage. Gradually abortions take place at a more and more advaned period of fetal development until they cease and pregnancy results in a child living but syphilitic. But still later children have no stigmate of syphilis The moist eruptions and ulcerations about the mouth and anus of the infant as well as the skin affections generally swarm with Spirochaeto pallida and are contagious. From the second to the sixth year there is usually quiescence But the table may become thickened with periostitis However the growth is arrested The nose is flattened and there may be destruction of the nasal bones and carries of the forehead and the skull. There is notched incisor teeth of the upper law (bull tooth - Vrishadanta Av 1, 18 4). interstitual corneitie and deafness. Thickening of the frontal and parietal bones around the anterior fontanelle (Parrot s nodes) develops from the sixth to the twelfth month (Av 9 8, 22 1, 10 11) And in case of anuris due to urethral cons-

18, 3) 2) Niyoga (× 40 27 and remarriage were known (Av 9, 5 27) Palse Alpines Alpines and Caspians were noted for their laxity of sexual morals Vaisya (Besai) Bhriguis (Brygea) maidens enjoyed complete sexual licence until their marriage (14. E. B Thrace) Palse-Alpine, Sces (Sesa) and Karkota, Năganis were known as Apsaras—nymphs for their dancing music and sexual attractions Mongols did not value chastity it was to them of no material value, if not for bargaining And in Vedic times Bhāratvarsa was not inhabited by the Aryans alone, nor the Vedas are the compositions of them alone, or of one age Almost all races have contributed to their compositions, so no wonder if among them some of the tribes got venereal diseases from their joint or remarried wives. At Luxor on Jan 27 1923 a body of the princess of the court of Amenhotep III (1412 1878 B O) adorned with stato marks has been found with ayphilitic ostetits and pensitis.

has been found with syphilitic ostetits and peristits.

Visalpa (Av 9 8, 20 Visalpaka; Skt. Visarpa) is Erystpelas, an acute contagious disease characterized by a spreading in flammation of the skim, caused by Streptococcus erystpelatis getting an entrance through an abrasion or wound. In facial erystpelas the point of entry is probably an abrasion by the lachrymal duct. The skin in a mild case is red and cedema tous and may show small vosications. The edge of the patch is often raised and distinct and extends from day to day. In about a week the inflammation subsides. One attack does not impart any immunity against future attacks rather due to lowered resistance it makes the body susceptible to it. In severe cases there is constitutional disturbance due to bacterial toxema with delinium the temperature rising to 105 F. A fatal form occasionally attacks new born infants in the first four weeks of their lives. With low resistance, crystpolas may lead to general septicaemis, known as Vidrudha (Av 8 128, 3).

VI LOHITA (Av 9 8 1) is Amaemia, due to the reduction of

VI LOHITA (Av 9 8 1) is Ansemia, due to the reduction of oxygen carrying red colouring matter (lohita) of the hemoglobin. Hemoglobin of the erythrocytes carry oxygen to thissues and transfer carbon dioxide from the tissues to the lungs Temporary ansemias may be due to malaria, hemorrhage, malnutration or to a chronic disease. But the cause of collorosis and of Pernicious Anemia are unknown. However

 $extit{DISEASES}$ AND $extit{DEATH}$ There are many resemblances between the lesions leprosy and tuberculosis And many lepers contract tube culosis In ancient times the leprous sores have been continued but the depres of the leprous sores have been continued but the leprous sores have been continued by the lepro founded with syphilitic ulcers The disease is contagious, but is of slow incubation. Intramuscular injections of ethyl esters of slow incubation. Intramuscular injections of ethyl esters beneficial in hydrocarpate of Chaulmoogra oil have esters. Leucoderma Syphilitic Leucoderma is pigmentary syphilide denomentation of the enidermis in areas of skin due to some depignentation of the epidermis in areas of skin due to some nervous disturbance or fungus growth, is a common disease The patches in contrast to leprosy do not show anesthesia. No cure of the disease of unknown origin is yet known cure of the disease of unknown origin is yet known to perform the act of coitus. Impotentia coeundi, that is, inability of cally in neurasthenics, the semen being discharged before the act of coitus. Impotence may be psychic in the semen being discharged before the acted in normal long. cially in neurasthenics, the semen being discharged before the physiologically necessary stimuli have acted in normal long discharged before the dark curbiling out of the hand may he diffice dary syphilis falling out of the hair of the head may be diffuse or it may occur in patches (alopecia syphilitica) The hair of ophrus = R_{nss} hrove Goth hrahw = R_{ns} other is R_{nsh} or the nead may be diffuse ophrus = R_{ns} of R_{nsh} or R_{nsh} of R_{nsh} or R_{nsh} or the head, aximile, eye-brow (okt. buru - Little orders - Buss brove Goth brahw = Pers abru), eye lashes, and naha region (of Anala Atrevi Vinodas 8. 91 5) may

and pubic region (of Apala Atreyl Upodate 8, 91, 5) may fall out When Hypopituitarism occurs in children the hairs vanaria (arinag nuhig) of the axilla (hird) and those of mons veneris (crines publs) are scanty or absent In males the hairs of the beard may be Scanty or absent in males the nairs of the beard may be famale the body nay resemble the female distribution of the nairs of the body returns the female type In the female the hair masculine type The genitalia The semble the state type in the semble the hair sharts the secondary of factoriae undergo regressive changes therty, the secondary sex featules undergo regressive changes, and armae nuhae Catam. the falling out of eyebrows, hirci and crines pubes satam

A life (Iivana | Iiva | Satam) $A = \frac{1}{1} \frac{1}{$ th falling out of eyebrows, hirch and crines pulses Satam and Sarada (X, 161, 4) A life ($J_{1}Vana$ pulses Satam and S=life Lat $J_{1}Va=l_{1}Ving$ creature $J_{1}Vv=to$ live J_{1 Could make and desire The struggle for expectation

Album as a cora Struggle for was

Lung to a cor $\mathcal{V}_{kru} = \sup_{t \in Sore} \frac{\mathcal{V}_{kru}}{Skt} = \sup_{t \in Skt} \frac{\mathcal{V}_{kru}}{kru \cdot dha}$

tion and precedes dropsy of the leg which manifests a little later due to the pressure on the large veins in the abdominal cavity by the sectic fluid. In asoites due to heart disease dropsy of the feet and the legs precedes the ascites and the patient complains of shorter of breath, palpitation and perhaps bronchitis. In the ascites of renal lesions, there is general oedems with puppiness of the eyes at rising in the morning SIRSHAETI (Av 9 8 1) is headache. Headache is but a

SIRSHARTI (Av 9 8 1) is headache Headache is but a symptom of some underlying organic troubles. In the vortex of the head pains may be due to anemia, chlorosis hysteria neu rasthenia, disease of uterus ovaries and bladder Occipital and cervical pains may be due to dyspepsia, constitution, uterine disease, nephritis, uremia syphilis, rheumatism and middle car disease. Unilateral head pain is due to hysteria, dysmenorrhoea, eye strain lithemia. Frontal and temporal headache is due to anemia, neurathenia, dyspepsia, constitution, lithaemia, eye strain syphilitic nodes. Pain of the eye balls is due to migrame coryza conjunctivitis, eyestrain, glaucoma. Nephritic headache is of throbbing character somewhat shifting, accompanied by vertigo and tinnitus. The headache from constitution and desorders of digestion is usually of throbbing pulsating character, affects the frontal and orbital regions and is made worse by sudden movements of the head. The headache of uterine disease is usually occipital sharp and radiating. The headache of neurasthemis is of a pressive character, usually vertical, but sometimes a painful band around the head. Karnasula (earnche 9 8 1) is due to other media, alveoler abscess carious teeth mastoid disease.

Prakota (Av 9 8, 4) is deaf mutism. Deaf mutism may arise from cerebro-spinal meningitis in children. The auditory merve may undergo primary degeneration in locomotor ataxia, thus causing deafness Blindness (andham Av 0 8 5) is commonly caused by gonococcal conjunctivis—ophthal mia neonatorum Optic atrophy and hitemporal hemianopsis are mainly due to locomotorataxia syphilis, brain abscess / Viu sito bind. Skt mu khas dumb Gk. mu-ein to close the mouth or eyes Lat mutius—mute, dumb Kushtha (Av 1 22 23) is Leprosy Leprosy is most prevalent in hot damp climate, and least in dry areas. It is a disease caused by B

leprae There are many resemblances between the lesions of leprosy and tuberculosis. And many lepers contract tuberculosis. In ancient times the leprous sores have been confounded with syphilitic ulcers. The disease is contagious, but is of slow incubation. Intramuscular injections of ethyl esters and sodium hydrocarpate of Chaulmoogra oil have proved beneficial in the treatment of leprosy. Sveta (Av 1, 23, 4) is Leucoderma. Syphilitic Leucoderma is pigmentally syphilide with central white patches. Tropical leucoderma—an acquired depigmentation of the epidermis in areas of skin due to some nervous disturbance or fungus growth, is a common disease. The patches in contrast to leprosy do not show anesthesia. No cure of the disease of unknown origin is yet known

KLIBA (Av. 6, 138) is Impotentia coeundi, that is, inability to perform the act of costus Impotence may be psychic in origin Sometimes it is due to premature ejaculation, especially in neurasthenics, the semen being discharged before the physiologically necessary stimuli have acted in normal long circuits. The power of erection is lost in tabes. In secondary syphilis falling out of the hair of the head may be diffuse or it may occur in patches (alopecia syphilitica) The hair of of the head, axillae, eye-brow (Skt. bhru-Lith bruwis-Gk. ophrus=Russ brove-Goth brahw=Pers abru), eye lashes, and pubic region (of Apala Atreyi Upodare 8, 91, 5) may fall out When Hypopituitarism occurs in children the hairs of the axilla (hirci) and those of mons veneris (crines pubis) are scanty or absent In males the hairs of the beard may be scanty or absent, and the distribution of the hairs of the body may resemble the female type In the female the hair distribution resembles the masculine type The genitalia The genitalia remain infantile with obesity If hypopituitarism appears after puberty, the secondary sex features undergo regressive changes, with falling out of eyebrows, hinci and crines pubes Satam Jiva sarada (×, 161, 4) A life (Jivana Jiv = to live, Skt jauvana = youth, jiva = living creature Gk zaw = 1 live, bi-os = life Lat viu-ere = to live, vita = life Russ ji-te = to live) of one hundred years was the highest expectation one could make and desire. The struggle for existence was severe Life was hard (kru-ra /kru-sore Skt

-anger, Gk. kru-os=frost. Lat. eru-or=bleeding wound cru-delis=cruel As hrim-hoar frost) Only men of personal bravery agility of movement, physical strength and courage, trained and disciplined under a great leader, could succeed in life The defeated not only lost their possessions, died in ignominy their wife and children were carried away as slaves Which is the place where the earth feels the sorest grief. It is the place whereon the wife and children of one of the faithful are driven along the way of captarity the dry dusty way and lift up a voice of wailing (Fary 8 11)
Disposal of the Dead — Arvans burnt their dead (× 15 11

Disposal of the Dead - Aryans burnt their dead (× 15 11 × 16 1; 18 Av 18 3 6 18, 9, 86) But other ways of disposal of the dead were also known and practiced. Some were consumed in fire (agni dagdha); others not consumed in fire (an agni-dagdha × 15 15 $\sqrt{\text{Dak}}$ =to bite Skt. dansa = bite dashta = one that is bitten daksha = biter clever aghi dagdha = eaten by fire = consumed in flames. Gk daknem-to bite; dak ry=tear Lat dak rima, lac-rima-tear) "Burn (sam tapa / Tap, to glow tapana = the sun Skt tap as = fire, tapa = to burn Russ. top-te = to heat Lat. top-ore = to be warm tepids) Blaze forth not flercely Lat. tepio = Gk tethra, thapta = to burn to ashes) O Agni do not destroy the bones (bones of the dead were thrown into sacred waters) by your flame. Show your destruction in the wood (funeral pile) and on the earth (on which the funeral pile was placed and not on the bones (Av 18 2, 36). Consume him not O Agni. Burn him not in flerce flame so that his skin is not split up nor his frame (bony) When thou shalt have burnt split up nor his frame (bony) When thou shalt have burns him up O Jitavedas then send him up in the shape of manes (pitri rupa Av 18, 2, 4) Those that are buried (nikhātā), or scattered away (paroptā limbs were cut into pieces and scattered away to be eaten by dogs, vultures or jackāt) burnt (dagdhā) to be seated up (m jars) all these father O Agni bring thou to this oblation (Av 18, 2, 34) Those who are burnt with fire or not burnt with fire in midst of heaven caronso (madayants \(\times \) Mad—to be drunk) with Svalhās (according to Bhar P ever vonthul daughters of Delsha that is the to Bhag P ever youthful daughters of Daksha that is, the stars × 15 14; Av 18, 2 35) After the dead was burnt out water was thrown to quench the fire Now O Agni,

thou hast consumed (the dead man). Be thou now extinguished. Let here grow now flowers (Kıyambu=a flowering plant growing in a moist place), tender grass (Pāka durvā -Panicum dactylon) and leafy herb (vyalkasā: x, 16, 15). Wife of an Aryan chief was usually burnt with her deceased husband, the wife of Caspian noble was buried with him. Later this cruel custom was given up Thracians (Mela Gauls (Caes. Bell, Gall: o, 13) cremated the wives with their dead husbands. And generally the dead man's brother or cousin took her as his spouse or secondary wife. But the wife was made to lie down near the funeral pile or burial place of her dead husband "Rise up O wife (nari), and come to the world of the living Thou liest by one who is deceased, come to him who grasps thy hand, thy second spouse (didhisu), thou hast now entered (with him) into the relation of wife to husband (x, 18, 8, Av 18, 3, 2). It seems that sometimes at least forcibly the wife was cremated or buried with her dead husband in order to be servicable to him in the next world as she has been in the past. "Seeing the youthful dame (yuvati) being carried away, a living being to be a companion of the dead and she was enclosed in deep darkness (her body was covered and bound in some clothes so that she could not move or offer any resistance), then I led her offward and made her appear in front (before all . she was unbound and brought to the assembly of others (Av. 18, 3, 3)." "Take yourself the bosom of the mother earth (mataram bhumin) This earth extending far is very propitious like a maiden, soft as wool to one she is favourably disposed, may she preserve you from destruction Open wide, O Earth Press not heavily on him Afford him an easy access and gently tend him Cover him, as a mother wraps the body of her babe with her robe, O Earth (×, 18, 10, 11, Av 18, 3, 49). They cut off (from the dead body) the hair, the beard, the hairs of the body and the nails. The aged persons, men and women not going together, (carry) the dead body, some say, in a cart with a seat, drawn by cows, and she-animal behind-a cow, or a she-goat of one colour or After grass and a black antelope's skin with the hair outside have been spread out there, they place the dead man there on, which they have carried To the north (of the body

they place) the wife (of the diseased) And a bow for a Rehatriya. Her brother in law being a representative of her husband, should cause her to rise (× 18, 8) Taking the bow with From the dead hand I take the bow to be carried to secure power might and renown You will be here. But we with our valuant heroes will vanquish all focs (x 18 9) The son (of the deceased person) should take the under and upper millstone for himself, and other implements made of copper iron and earthenwave Taking out the omentum of the she-animal he should cover therewith the head and the mouth (of the dead person) with, "Shield thee with flesh against the flames of Agni ; cover thee with fat and marrow so that the fire eager to attack thee with fierce flame will fail to cover and consume thee Taking out the kidneys of the animal he should lay them into the hands (of the dead body) with, Escape and outspeed the two hounds-Saram's offspring (Canis Major Cania Minor) brindled, four-eyed who watch the mortal and guard the pathway (Milky Way) Draw near the benevolent Pitris where they enjoy the company of Yama (x 10 10) " The heart (of the animal he puts) on the heart of the deceased) Having distributed the whole (animal) limb by limb and having covered it with its hide, he gives order light the fires together While the body is burning he recites Go forth, go forth upon the ancient pathways whereon our sires of old have gone before. There the gods Varuns and Yams are reveling like kings (x 14 7) Being burnt by a person who knows this he goes to the heaven world together with the smoke After the tenth (day from death) a man into a male urn, a woman into a female one with the thumb and the fourth finger they should put each single bone (into the urn) the feet first, the head last Having well gathered them they should put (the urn) into a pit then they should go away should bathe in water and perform a Sraddha for the deceased (x 18, 13 As Gr 8 4, 4-5; The Mitannis barnt their dead and buried the funerary Vases filled with ashes (L L N Dec 30 1939). At Mohemodaro and Harappa in the upper strata half burnt bones of the cremation were interred in funerary urns The Parsi Dakma originally meant crematory from /dak or daha-to burn. The Khattis after partial cremation of their

dead,interred the half-burnt bones in large jars. Khatti wives had great privileges Khatti wives jointly with their husbands performed religious sacrifices Even in meal times wife had to with her husband the participate ın to the ancestors Before the gates of the temples we find Khattı amazons, clad ın armoured vest and armed with bows The Etruscan, Greek Pelasgos, belonging to the Caspian race, practised jar burials But later in Italy they cremated their dead after Aryans, and ashes were buried in urns of various shapes with human heads and arms (R P Vol x, 135-145) It was customary among the Germans to destroy weakly, sickly or deformed children, to drown in morasses men whose bodies had been mutilated and when became useless from old age, voluntarily to deprive themselves of life existence devoid of strength and beauty appeared to them worthless, and according to their religion, the joys of heaven were only granted to those who fell by the sword In the north the sick were at their own request pierced with a lance in order that a wound and not disease might be the cause of their death. In Norway there was a rock from which the old men threw themselves into the sea after dividing their. wealth among their children at a paiting feast Warriors who fell on the field of battle, and their wives that killed themselves on their husbands' bodies, were burned on funeral piles together with their arms and the bodies of their enemies, and immense mounds were raised over them (W Menzel-Germany P 24, 28, 53) Old people of Keos after they reached sixty were compelled to put themselves quietly out of the way with a draught of hemlock in order there may be sufficient maintenance left for others Iranians allowed their old people to be devoured by jackals, wolves and vultures After reaching fifty old people in India, leaving their estate to their sons, were compelled to wander from place to place and live on begging and on wild fruits and tubers in the forests Cremation was very generally practised in Central Europe in late neolithic age Cremated remains have recently been found in Belgium in a neolithic settlement and burnt bones have been met with in long burrows in Yorkshire Cremation was also practised at an early date in many parts of Germany Still it is true-

that these cases of cremation were to some extent confined to limited regions while in others both practises prevailed upon the same time. The simost universal practice of cremating the dead and placing the charred remains in an urn to be buried in a round burrow or in an urn field seems to have spread from Central Europe probably from Lausitz region at the beginning of the late bronze age to almost every part of Europe (14 E B Archeology) About 1100 B C the traditional date for the Trojan War when Egypt was vexed by the peoples of the sea, Mycaneae and Turyns (of the Caspiana) went up in flames through the invasion of Aryans. The palace at Chosans was destroyed and never rebuilt or re-inhabited. Iron took the place of bronze and Aegian art as alving thing ceased on the Greek mainland and in the Aegean isles including Crete, together with Aegean writing Cremation took the place of burnal of the dead (14 E. B Accean Civili sation) In early Iron Age in Italy the burials were all cremations the ashes of the deceased being deposited in a large jar of rough hand made pottery which was placed in round hole in the ground. Inside the jar were the remains of human bones incompletely consumed by the fire; while in the layer of ashes surrounding the jars were bones of animals together with small objects of use or ornament made of bronze iron, amber glass or bone (14 E B Villanovana) In the earliest La Tene Period (550-420 B C) the cremation is met with in the chieftain a graves Later it becomes commoner (14 E B La Tene) In Germany cramation makes its appearence first in the middle bronze age, and at a later period in the late bronze age practically displaced the older rite of inhumation (11 E B Teutonic Peoples) In Ancient Britain cremation is represented as the prevailing custom according to Boswulf The burnt remains were generally if not always enclosed in urns and then buried. The urns them salves are of clay somewhat badly baked (11 E. B Britain). They burn the bodies of eminent persons with some particular kinds of wood The arms and the dresses, and sometimes his horse are given to the flames (Tacit. Ger 27) Shang Dynasty (1768-1123 B C) tombs in Honan province, most probably of Caspian origin, show that horses chariots, the wife

MYTHS 228

and the servants of the king were strangled to death and buried. With bronze sacrificial swords, helmets, hundreds of sprearheads, beautiful bronze tankard with double covers, one of which could be used as drinking cup much like the detachable top of a modern Thermoflask, and the upper cover was attached to vessel by means of a chain, a magnificent bronze rectangular cauldron, richly decoroated with stags and the limestone owl, a tiger-faced kneeling human body, but with feline claws (1. L. N. April 4-1936). Aryans introduced cremation of the dead wherever they went. In Greece it was introduced by Achaeans and Ionians In Italy by Umbrians and Latins They used to burn the dead upon a funeral pyre of wood upon which oil, food, clothing were placed. The embers were quenched with wine and ashes placed in a cinerary urn

11 — MYTHS

Man is a thinking creature. Though by nature and instinct he is an inveterate hedonist, yet to insure his happiness either in the earthly temporary existence or perpetually in heaven in after-life, he has to invent religious myths for his supports. To ward off evils, dangers and diseases, for health, success and happiness he has always to devise means. Religion is the means by which he explains things to satisfy his inquisitive primitive mind. And religion was the philosophy of the ancients. It was the barometer, of racial intelligence. And consequently philosophy in medieval periods was based on metaphysical speculations. Now it is becoming the synthesis of Sciences. Dharma (religion) means support. \(\sqrt{Dhar} = \text{to support}, \text{ to sustain } \) Skt. Dhara—to hold, Dhar-ani—supporter, the earth, Dharma—which supports, the law. Gk. thro-nos—a support, a seat, thor-ax—a breast plate (keeper), Lat fre-tus—relying upon, fre-num—bridle (holder in), fir-mus—firm, secure; for-ma—beuty of form (strength) But foreign conquests and racial

amalgamations often confuse and obliterate the landmarks of racial myths Even intercourse with powerful neighbours generate revolutionary thought ferments which disintengrate and dissolve ancient traditions and myths. And thoughts are more potent solvents than chemical digestants. In Europe it is the Greeks that have been able to preserve their myths through their imperishable art and literary treasures. But the Greek body and mind was a blend of the Aryans superimposed on the Mediterraneans (Minoans) as a base and mixed with the Caspians (Mycenseans) and the Alpines (Domans) But nothing earlier than 7th century BC In Iran the racial mixtures have been no less confusing And Zoroastrian religious reforms and revolutions have effaced many ancient myths, and have put into the shade the rest Zorosster lived about 500 B C and was patronized by Vistaspa, father of Darius Seven stone tablets laying the foundation of Persepolis by Danus (515 B C) and finished 40 years later by his son Xerxes in the cunciform character in Elamite, Babylonian and Old Persian have been The plaque inscriptions are as follows Darius the great king the king of kings the king of lands, Vistaspa s son the Hakhamani speaks Darius the king this is the empire I possess from Sacae who are beyond Sogdia (Sudugdha between the Oxus and Jaxartes) and the Kush (the Central Nile region in Nubia Pur Kusadvipa) from the Indus as far as Sparda (Sparts) which Ahura Mazda has granted to me who is the greatest of gods May Ahura Mazda protect invest and house Sayeth Xerxes the king When I became king there were smong those lands which are written above some who rebelled. Then Ahura Mazda helped me; by Ahura s will, such a land I defeated and to their place I restored them, and among those lands were such where before the Dawas (devas) were worshipped; then by Ahura Mazdas will, of such temples of the Daivas I sapped the foundation and I ordained the Daivas shall not be wor shipped; where the Dayvas had been worshipped there I worshipped Ahura Mazda together with Ritam (cosmic order the exalted I. L. N Feb 22, 1986) From this it is clear that Darius 1 (521-458 B C) introduced the religious reforms of Zoroaster the protege of his father Vistaspa in the great Persian empire and is likely that Darius might have heard

MYTHS 225

himself the earnest and eloquent preachings of Zarathustra in his father's court and was inspired by it But the ancient faith was not entirely uprooted. The Daeva worshippers rebelled however in the time of his son and successor Xerxes (485-485 BC) to assert their right of sacrificing to their ancestral gods (devas) But their rebellion was ruthlessly suppressed by the irresistible military organization of the Achaemenids, patterned after the Khattis whose race and traditions they most inherited and followed, and not only their temples were destroyed, and they were even forbidden to adore their gods Even in Zend Avesta ancient Aryan Devas remain in the backgrounds The Achaemenides were Saka Kamboja-Kuru people on the base of Parsa (Khatti Puru) tribe. Sakas pronounced s as h (as Saka = hakha), v as p (asva = aspa, svanta = spenta) It was a marvellous racial blend, and their culture was a similar good synthesis Zend Avesta means simply a collection of chants (songs) like Rik (prayerful chants) samhita Av. Zend = Skt = Chanda = Lat Canto - Eng Chants $\sqrt{\text{Kan}} = \text{to sing Skt Kanva} = \text{singer}$, Kanva Medhātithi - the name of a Vedic composer Gk can-ache =ringing sound Lat cantare = to sing Lat. canto, canoi = chant Fr chant Avesta = Skt. Avasthā = arrangement by mutual agreement \sqrt{Av} = to please. Skt ava (1, 128, 2) = favour, ava-taram = with greater pleasure Lat av-ere = to desire, av-arus = avarice, or-is = a sheet Gk ai-ein = to iegard VSta = to stand, to stay Skt stha=to stand, sthana=place Gk esten = I stood, stel-lein = to place, stel-los = expedition, stele = pillar Lat stare I stand Russ stoite - to stand, Ger stand = stand Skt avastha - state, condition, stability, penis, avasthana = condition, situation, avasthitha = standing near Yasna = Vedic yajna /yag = to sacrifice, Yajna = sacrifice, Yaj-mana = sacrificer Gk. ag-10s = holy Av Yast = Skt. Yasa =hymns of praise 1/yas=to exert oneself, Yasa=praise Gk·zelos=zeal, aidour Lat zelum=zeal, zelotes=jealous Av Zaotar = Vedic hotri = priest \sqrt{Sak} = to fasten. Skt sak-ta= attached Gk sat-tein = to fasten on load Lat Sanc-ire = to bind by a religious ceremony, to sanction, Sanc-tus=holy, sanctified Av Haoma-Vedic Soma, Av Athravan=Vedic Atharvan=fire-priest Av Ahura Mazda=Vedic Asura Medhasa or vedāsa - All-knowing Lord It was an epithet of Rudra

(yatha rudrasya sunavo divo vasanty asurasya vedasah var medhasah (8, 20 17) The town Ausar (Assur Ashur Asura), the ancient capital of Assyria now in rums at Kalat Sherghat built on a rocky headland on the western bank of the Tigris, 40 miles above the mouth of the Lower Job was founded by Zariku, an Agadian (Caspian) at 2876 B C who was the local governor of Dungi of Gutean Dynasty According to inscriptions of later Assyrian kings Ushpia built the temple of god Ashur in the north west corner of the city on a ancient branch of the Tigris which flowed by it. The high priests of Ashur made themselves kings of Assyria. And Kassite king Karamdash (1450 B C) was compelled to make a treaty with Assur bet-nisheshu concerning a boundary line About 2100 B Sagittarius was in autumnal equinox and Taurus was in vernal equinox Being in the same equinoctial colure in opposite direction, Sagittarius (Rudra Siva osiris Ashur) rides over the bull. In the Assyrian standard of Nineven there is the Archer over the galopping Bull, and that of Sargon 722-705 B C there is the Archer and the Bull The Assyrian god Ashur and Zorosstrian Ahura Mazda have the steaming wings of the eagle (Aquila), the body enclosed in a ring (Corona Australia which later became the symbol of taking solemn oaths. especially of marriage) and the hands holding bows and arrows Rudra carries his bow and arrow and is called Asuro Maho (2 1, 6)-the Great Lord Ashur was the protecting deity of the Assyrians who were Caspians in race. Asura is the honorido title of many Vedic gods. Is it a borrowed epithet? Ish (7 43 1) = to move quickly to be vigorous. Skt Ishira-Gk 1eros-vigorous. Skt. 1sht-Av 1shu-Gk, 10s-arrow 18hu dhara - archer - Sagittarius. Gk 10tes, Russ. icch&=desire ishta ishti=desired nkate Skt. owning master isana-owning a name of Rudra; isvaraowning lord (Egypt. Osiris); isk (8, 5 29) - shaft, lady (Egyp Inis), 185mi (Baby Innini) = lady; 18vari (Baby Ishtar) = lady Asura-lord, archer owner of Isa-shaft and Ishfar, goddess of war originally and later of love-Great Mother in all aspects Archeology has unearthed marvelous mexhaustible treasures of realistic paintings vivid sculptures and numerous objects depicting religious, political and social life layer by

O Prusa deina, Ar tiu-day) Ushas is his daughter (duhitā) Asvins , are his offspring (napitā 1, 1841), Surya, Maruts are his sons (putras) Dyaus is a bull (1 160 8 that bellows (thunders 5 58 6) and fertilizes the Earth) Dyans is called asura (1 1.2 1) Dyn is our father and generator (pita janita); this great Prithivi (Prithivi, mahiyam) is our friendly mother (bandhur no mata 1 164, 3) Father Heaven (Dyaush pitar = Gk Zeus pater - Lat Jupiter) Mother Earth (Prithers mater) brother Agni and ye Vasus, bless us Ye Adityas and Aditi unanimously grant us your manifold protections (6 51 5) On his black path (charred forest he (Agni) shines in burning beauty as Dyau smiles through the clouds (2 4 6) Dyan's smaling through clouds is nothing but the lightning flash When he comes with smiling (lightning) rain drops fall, the clouds thunder (1 79 2) Like a dark horse adorned with pearls Fathers have decorated the heaven (dyam) with constellations (nakshatra × 68, 11) Zeus as a sky god was invoked as the deity of the bright day (amarios) who sends the rain, the wind and the dew (ombrios huetics and ourses) Zeus was called a thundering god (Zeus keraunos) And he was himself called thunder stone (kattaotos) the sky as a stone vault. Zeus Geleon the beaming or rather lightning Zeus was the common epithet. In Rome Jupiter was regarded as the god of rain, storms, thunder and lightning (Jupiter Pluvius Jupiter Tonans) Dyaus is found more than 500 times in the Rigvada, but usually coupled with Prithiri (Earth) as Dyavn-Paithivi High heaven (dyam) unsupported in space he (Indra) keeps as well as Bodasi and the antarikaha (atmospheric region) And he supports the expansive (papra than) earth (Prithivi 2, 15 2. 1/2 prath-to spread out, to broaden out, to expand. Ekt prastha - expanded plain prithu -hroad prithivi - wide world. Gk platys - Lith, platus - broad Gk plax - a flat surface Lat. placents - a flat cake) There are two short hymns to Prithin (5 84) On whom (are) the ocean the river and waters. On whom with plowings grows food On whom multiply all that breathes and moves. Let that earth give us food and drink (Av 12, 1, 3) Let thy fills giri O Slav gors forest) and forests O Earth, be pleasant to us (Av 12, 1, 11) The universal mother of herbs is this

earth (dhruba bhumi = Av bumim). On this earth. d by laws, auspicious and pleasant, may we always 12 1, 17). Thy aroma has entered into the blue nich the immortals gathered at Surya's wedding Earth ource of all fragrance. Make us redolent so that none us (Av 12, 1, 24) It is the (voluptuous) perfume that ie sexual congress gratifying to men and women, the horses, hares, wild animals and in lory is a maiden O Earth unite us with her (Av. 12. On whom stand fixed the trees, the forest trees the orting Earth do we address (Av 12, 1, 27). Diverse different languages and customs are borne by the different localities In thousand ways let that (earth) wealth steadily like that of an unresisting milch cow , 1, 45) Prithivi is mother (5, 72, 2, 8, 102, 3). Dyava is a widely capacious pair (uruvyacasā mahini), father ther (1, 160, 2). Dyāva is a bull (vi ishava) with large of semen (rain), and the earth is a coloured cow 1, 160, 3) The rain as semen fertilizes the earth. earth becomes productive as a cow is impregnated by nen of the bull According to traditions the earth heaven were one (possibly as golden egg-hiranya 10, 121, 3 The world-egg (bhrahmanda: Manu 1, 89) irt and have formed the sky with the upper shell of the d the earth with the lower part, and the sun has from the yolk, a conception like the Finns) e is mentioned (AB 4, 27, 5) The world-egg concepts also Fgyptian, from which possibly the Phænicians ed it (11 EB. Cosmogony) Heaven and Earth were Rodasi as sisters (1, 185, 5) Another name of Prithivi -Gk Gai (Gaea), Egyptian Geb In Greak mythology, aea) emerged out of chaos (empty space) Gai was osomed (Gk protista - Skt prithivi) And she bore glens thills and raging swells of the sea, the snowy peaks npus and depth of ocean She embraced Ouranos n=Vedic Varuna) Out of their union were born many of whom Kronos was one Instigated by his mother, with a flint long sickle with jagged teeth lopped off nis of his father. From the blood that fell were born

Ermyes (furies) and giants (tempest and storms) The penus fell into the sea and a white foam spread round the immortal flesh from which was born the lovely Aphrodite (Hesiod Theogony 115—190) Ouranos loves to inflict on Gai an amorous blow, and desire seized Gai to obtain the nuptial union Rain falling from moist Uranos impregnates Gai who brings forth for mortals the food of sheep and the sustemance of Demeter The verdure of the woods is also perfected by the showers proceeding from this marriage Of all these things I (Aphrodite) am in part the cause (Aeschylus-Danaides) According to Eustathius, the father of Kronos was Akmon, the Vedic asman (2, 12, 8) meaning flint stone the friction of which generates fire (Agni) In Avesta and in modern Iranian, asman - sky So it seems that the Aryans conceived the sky as a stone vault on which the gods rode on their chanots with their fleet steed Viyu as chanoteer faster than thought. Not only earth was called Gaea in Greece and Go in the Vedas (Dhenu 1 160 8) she was also conceived as a cow Let Prithivi bless me with land and milk, she who is rich in milk, tranquility fragrance and joy (Av 12 1 49) Prithivi is the great mother (mahi mata 1 131 1) Mahi is Hellenic Mais who through Zeus became the mother of Hermes Mais was the goddess of the springs of the Romans.

ADITI is the unbound infinite space the female counter part of Dyans \$\sqrt{ds}\$=to bound Sunasepa is bound (dita) to a stake (5, 2, 7) Ud-dina=bondage Gk de-en=to bind diodema=Lat. diadema=a band fillet Dyanr Aditi (bound less sky or bright infinite space) is the mother of gods and feeds them with honeyed milk imadhumat payah \$\times\$, 63, 23 3) Ushas is the face (anikam) of Aditi, mother of gods (matā devānim=Gk. Demeter 1 113 19); Aditi is the mileh-cow (dhenu 1, 153 3) Bhārgava Jamadagin, nephew of \$\times\$Visit is mitra says. To folk who understand I will proclaim Injure not blameless cow (Go)—Aditi Rudras mother (mata) Vasu's daughter (duhitā) sister of Aditya and the fountain of ambrosia (8 \$\times\$0 (101) 15). Prithivi being a terrestrial cow and Aditi as the heavenly cow Aditi became identified with Prithir (Av 13 1, 38) for earth also is wide besomed and vast Hero (earth) the wife of Zeus was cow eyed (bowpis potnis Hero).

Devi Sukta (x, 125) is recited at the worship or Durga, riding over lion at the time of autumnal equinox when the sun his passed Leo and has entered into Virgo This is the season of harvest. Virgo (Kanyā) holds a spike (Spica Citrā) of barley in her hand Spica (ear of wheat) is at the distance of 239 light years and has the brilliance 1500 suns Demeter as a goddess of agriculture is made to derive her name from dear, the Cretan form of Zeiai - barley or Ge - earth But the best derivation is from $\sqrt{\text{div}} = \text{to}$ shine Skt deva=lumimary Gk dios-heavenly, Lat de-us=god, that is De-meter=devamata, the mother of gods which was the name of Aditi or heavenly mother (Virgo) The festival of Demeter was originally held in autumn with obscene jests and phallic emblems; and a thanks-giving festival of Demeter (Thalusia) was held in autumn after the harvest in the island of Cos In Sparta and in Argolis a cow (representing according to Mannhardt, the spirit of agriculture, more likely as her earthly symbol and conception Go=Ge) was sacrificed by 3 women. Demeter is akin to Ge and is sometimes identified with Cretan lionborne Cybele (14 E B Demeter) Cybele was called Great Mother of the gods (Mater Deam Magna, earthly Idaea) for her universal motherhood and for her earthly seat of worship on Mt Ida in Crete The cult of the Great Mother together with her sacred symbol, a small meteoric stone reputed to have fallen from the heavens, was transferred to Rome and established in a temple on the Palatine (Livy, 29, 10-14) She was sometimes identified with Ge and Demeter She was called the Mountain Mother (Dictynna-Parvati) for her sanctuaries were invariably on mountains and frequently in caves. Lions were her faithful companions and she rode on them Her worship was associated with orgies. She is usually seated on a thione accompanied by two lions (14 E B Great Mother of the gods) In a seal impression found at Knossos of 1500 B C the Mountain Mother, wearing typical flounced Minoan skirt and holding a sceptre in her right hand stands on the peak of her own mountain, flanked by two guardian lions It is said that Demeter became enamoured of Iasion (Vivasvan =the sun) in a thrice ploughed field in Crete and the fruit of their union was Plutus (wealth). The Romans received

from Sicily the worship of Demeter, to whom they gave the name of Geres (Hindu Sri) Like Prithivi, Gk. Ge, Tellus Mater was the Earth mother of the Romans as Hertha (Nerthus) in Germany Tellus (Terre // trish-to thirst trishink—thirst; Gk. trasia—a drying kiln. List terre, tersa—dry land) was the Roman goddess of marriage, forthity like Demeter Hertha (Northus from Sk nritya—dancing) Mother Earth (Gk. era—Skt,—urvi—Ger erdo—O Ger herda—Goth airths. Hertha might have also been derived from Ger hard. O Ger herda—hearth. Goth haura—herring from Ger herd O Ger herda—hearth; Goth haurja—burning coals; Luth hurti—to heat an oven) is carried in a charot, drawn by yoked sacred cows. In Heligoland (Holy Island) after she is bethed by slaves slaves are drowned in the lake (Taoit. Germania 40) The Angles gathered from all quaters to her temple there for her worship which was attended with orgies (14 E B Hertha) Egyptian Nut (night sky) is in the shape of a cow her body covered with stars Isis (Hindu Isi) was identified with the cow and Osiris with that of Apis Bull with light and dark colourings (equinoctial Taurus) The queen (Ristri) of the heaven (Virgo though it is ascribed to Vak and nowhere it is found mentioned in the hymn, and moreover it is read at the worship of Durga says I roam with the Rudras and Vasus, Adityas (sons of Adit = luminaries of the sky) and Vuvadevah (vis-community hence universal; visva-devah = universal gods or all community gods) I hold slot both Mirts and Varuna, Indra and Agni and Asvins (× 125 1) I support waxing Soma; I sustain I vashtar, (× 125 1) I support waxing Soma; I sustain I vashtar, Pushan and Bhaga. I give wealth to the earnest sacrificers who offer me oblations (× 12) 2). I am the maker of king doms (rdshtrs) I am the gatherer of wealth I am most generous, and first of those who deserve worship. Thus gods have established me in many places to enter and to shide in many homes (× 125 3) Through me they est (nourish) breathe see and hear that is spoken They know thot yet they live through me. Hear one and all the truth as I declare it (× 125 4) I bend the bow of Rudra that his arrow may cause in the rabble segment law (headmadwichs—hate of prayer strike the rebel against law (brahma-dvushe-hater of prayer devotion or order) for the people I fight battles. I penetrate into heaven and earth (dyavi prithiv) × 125 6). I shine

over the head of the Father. My home is in the waters and in the ocean. Thence I extend over all existing creatures and touch even yonder heaven (dyam) with my forehead (x, 125, 7). I breathe like the wind and I hold together the universe. Beyond the heavens and the earth I am great in my might and glory (x, 125, 1-8) This Vedic conception is quite similar to that of Egyptian Isis, Sumerian Innini-Lady of the Heaven, Khattı $M\bar{a}$ (Egypt. Maat = Skt matā), Babylonian Ishtar and Phænician Astarte, the great mother of the mountain, who riding on lions killed the enemies with arrows, Demeter and the great Mother of the gods (Metera Theon) who is well-pleased with the sound of flutes and the outery of bright-eyed lions with echoing hills and wooded coombs Artemis was also the Virgin Mother Goddess of the Caspians. Scythians offered in srcrifice to virgin Artimpassa (Artemis) all ship-wrecked persons and all Greeks compelled to put into their ports by stress of weather (Herod 4, 103) Human sacrifice was offered to her Lion, owls and serpents were sacred to the Caspians Artemis was the war goddess of the Caspians, Caspians conceived Sagittarius as a woman armed with bows She was the huntress In the Greek legend it is said that Artemis aimed her airows at Orion, a handsome hunter as he attempted to sape Eos, the dawn maiden and changed Eos into a deer, because she was bathing naked Prajapati (Orion) being enamoured of his daughter Usha followed her Ushā changed herself into a female deei, Rohini (Taurus) At this Rudra (Sagittarius) being incensed at the father pairing with his own daughter aimed his arrows at him (A Br 3, 33) When the father desiring copulation united with his youthful (daughter) in passionate ardour he discharged into the pleasure receptacle of her your a good deal of semen which overflowed (spring showers ×, 61, 6). The cult of Artemis, Ge, Demeter, Cybele were grafted on each other and modified The mysteries of Demeter (Eleusinian ceremonies), Ge at Phlye in Attica, Artemis Mysia of Sparta, possibly of Pelasgic origin (11 E B Mystery) are similar to those of Isis, Astarte, Cybele (Pur Karāli - Kāli) and Bhavāni, slightly modified here and there according to local circumstances. Generally religious mysticism and ecstacy are associated with

drinking eating cakes, sanctified meat, dancing and sexual licentiousness. The mysterious festivals of Demeter were known as Eleusinia and Thosmophoria Orthic Artemia of Sparta of the 7th century B C is winged (with owl feathers which was sacred to her Owl-Corvus very near to Virgo) she has prominent nose like the beak of a bird. Before her are seated two owls. In her shrine Spartan boys were flogged. Spartan bronze votive offerings include bull head, pendants a hon broach, double axes (of the Mycsmians) double-mouthed surpents, a sphinx with a pleasantly humorous face in soft limestone (I. L N Oct 16 1936) Temple of Ishtar at Mari is guarded by bronze covered hona (I. L. N Nov 28 1388) There was a temple of Ishtar at Mari between 8000 to 2000 B C There were 15 bronze life sized lions to guard the entrance of the were in bronze ine sized lone to guard the entrance of the marriage chamber of the goldess A backed clay relief of Iahtar of Larsa Dynasty (before Hammurahi 2100 B C) is now in Louvre Museum. The figure is node with fine oval face almost aquiline nose, thin lips seductive well developed globular breasts voluptuous contour, anake headdress, winged and with birds feet standing upon two reclining lone holding in her hands Yoni and Linga symbols (sistrum) There are two owls standing by her sides Owl was also a favourite of Muneure (Plances Marger LT N Lars 14 1038). Atheurs Minerys (Etruscan Menrya I. L. N June 18 1938) Athenas Laurum owl is engravd on ancient silver coin—Drachma. Ishtar Kihitum sanctuary at Ishali of about 2100 B C (Abraham s time) shows that Ishtar steps with one foot on the head of a hon and holds in her hand a sickle-shaped sword. An owl is flying before her And in the right and left of the stele a cow is sucking a calf and there are two scorpions round a tree. There is an alabaster figurine of monkey. In two large cauldron shaped vessels there are representations of snakes scorpions. anapod vessels there are representations of snakes acorpions tortoises, birds and dogs Possibly also they contained live anakea. For inside them at the bottom, bones of birds, small animals and sherds have been found There is also an unbroken saucer which possibly contained water The bearded men are carrying kids for sacrifice (I. L. N Sept 5 1938). In Homers time Artemis appears as a goddess of death (KIL Bhavdni) and as a goddess of war. To Artemis 600 goats offered were yearly by Athenians as a thanks giving comme

moration of the victory at the Marathan (14. E B. Artemis). A primitive mother goddess of Cyprus with a baby in the crook of her left arm, her neck stretched with many encircled ring-necklaces, has been found in Vounons necropolis of early bronze age (3000-2000 B.C.) A bronze figurine of the lion headed goddess Sekunent with her baby Nefertem on her laps, she is exposing her left breast with her right arm (1500 B. C) A beautiful carved gianite relief of Isis of Palae-Alpine type with her son Horus on her lap, holding it with her left arm and feeding it from her left breast with her right hands found in the temple of Karnak (1000 BC · I. L. N. Dec, 26-1936) In a Khattı votive relief at Boghaskeui there is broad hipped seated female with a child on her knees called, Umma (Assyrian and Sabaean Umma = mother), Puranic Uma, consort of Siva As a Great Mother the image of Artemis in the magnificent temple of Ephesus was covered with numerous breasts. Adıtı (Pur. Adyā) is perhaps the consort of the Babylonian sky god Adad (Syrian Hadad. Pur. Adınātha), god of thunder and lightning. Kanyā (Virgo) makes hei appearance in heaven (X 39 12). A nude relief figurine on a gold leaf with renderings of sex organs but with abnormal exaggerated relation of extremities and absence of articulation of joints has been found at Loriya tomb of 7th century BC A similar cast has been made among the relics of Piprahva stupa of Maurya Period. Mediterranean Mineaans called her (Mānını), passionate (Kāmini, Kāmarupā, Kāmesvali) fond of wine (Madalasa), the goddess of fortune (Mahalakshmi) of the Nebataeans The Semites named her Allat, Illah, Rusa, Assā, the maker of destiny, associated with Venus (Tarā) Allat, Illah was represented by a square or triangular stone southern Semites called the planet Venus Athtar El, Elohim and Yaw, Yeoveh of the Hebrews and Allah of the Islamis developed Aramaic Yaw occurs with the name Hebrew chief Hamath who was captured by Sargon in 720 B C thunder god Adad (Adi-natha) is incised as YHW just above the hollow in his outstretched hands, sitting nude upon a winged wheel in a coin from Gaza of fourth century B C. Yaw and Anat with faces on opposite directions but on joined necks (Ardha-narisvara = Androgene) are also on coins of Gaza

1

Anat (Ananda Ananda) as a name of Ishtar occurs in the Hammurabi period. Egyptian 19th Dynasty sculpture shows Anat standing nude (Digambath) on a lion (Simha-rathā) a very pretty voluptuous figure with well developed hemispherical breasts but thin waist, holding in one of her outstretched hands lotuses and in the other serpents or spikes of berley She is also Kādeth, Babylonian Quadisht, Phoenician Quadisht, Qudesh, which is a term for prostitute as well as the title of Ishtar the queen of Heaven (ristri) and mistress of the Gods (Deva Vallabhā) A nude clay figurine, sometimes with doves or serpents has been found in large numbers from great antiquity from Acgean areas to the Persian shores, and was kept as a house-hold deity for 'love (Premā) blessings (mangala) fertility (Annapura Shasthi) for destruction of the enemies and for health and welfare (Kalyāni) She was the Aphrodite of the Greeks Isis of the Egyptians and Issuri and Ishtar (Isvari and Isāni) of Syris and Mesopotamia Teraphin of the Hebrews Ishtar that peers from the window to attract vonths (Mohini), but bringing woe and distraction of their my by unrequited love was called Kilili (Kāl, Mahāmāyā—

a great illusion) in Babyloma and Asyria. In the temples of Mylitta (Matriki, Mangali Mandali) every marrigeable maiden had to offer her virginity to a stranger before ahe could be married. The defloration was made in Rome by placing the maiden on the lap of Priapus and in many countries by priests or kings. Perhaps blood-shed was regarded sinful and dreaded, being antisocial and inhuman. That is why perhaps in the ancient world the mensitual woman was regarded unclean and isolated and consequently the bloodshed through hymen fracture was allowed to be made by strangers or priests who thus took the sin of others; or because woman was regarded as a communal property, and a representative of community exercised the right before husband could enjoy the marital monopoly or the first fruit of love was given to the goddess of love and fertility for receving her blessings.

AGNI-Lat. ignis-Lith. Ugnis-O Si Ogn-Si Ognj-Khatti Agnish-Gk agnos (holly /A)-to move 9kt. and a quick nover, the goat; the vehicle of Agni Lat agen-to drive, Gk. ago ignitus-to ignite agein-to drive.

MYTHS 28T

JAn-to breathe Skt. anila=air, an-ala=fire Gk an-emos= wind Lat an-imus = spirit) is a messenger (duta) of the gods (6, 15, 9) and lord of house-holds (griha-pater: 1 60, 4) and who dwells in every abode (7, 15, 2) The multifarious uses of fire have been the main factors of human progress Fire is the basis even of modern civilization. It is the background of practically all forms of modern manufacturing and transportation. To the primitive man the blaze of fire not only gave warmth to the body and protected it from cold and winds, it softened indigestive fibrous food and made it palatable and thus facilitated its growth and power It warded off wild beasts and thereby made cave life safe, comfortable and warm for women and children Thus fire became the symbol of hearth, home and domestic felicity Fire was the most sacred and the primary god of the Aryans Fire makers either by friction as by a fire-drill or by percussion of two flint stones, and fire-pieservers by the timely addition of fuel and fats became the highpriests and leaders of the community Because they rendered the most useful and valuable service to the community, for a home without the uses of fire is hard to conceive Thou Agni dost shine (dyubhis as a fiery scorching sun, kindling inflammable substances like dry leaves), thou dost twinkle from far (āsusukshanıs as a constellation Aia = the Fire Altar), thou art born from the water (adhyas from the clouds as a lightning, striking a combustible dry stem of a tree), thou art generated from stones (asmanas through flint percussion), thou (art born) in forest trees (vanebhyas through friction of wooden fire drill), thou art born from the herbs-(oshādhibiyas catching fire through any of the above sources, thou lord of men art generated pure (2, 1, 1). - "Generated in the highest heaven (parame vyomany) Agni is known as Mātārisvan (constellation Ala, = Fire Altar) when he is kindled through his power and majesty, his splendour shines from the heaven to the earth (1, 43, 1) Its glimmer is unfading (ajarā), his beams are fair lo look upon His face is lovely and shines with beautious sheen. Like a stream the light of Agni through the nights glimmer sleeplessly and unfadingly, (1, 143, 3). White-hued and thundering he (Agni) dwells in splendour, loud-voiced and lasting, the most youthful

(Yayıshtha Hephaestus thunder and lightning; 6, 6 2) O Agni thou art the unfading star-Surya-in the heaven to to give light to man (X 156 4) As fire produces fire Agni is called Tanunapat—offspring of his own body (1, 13 2) As lightning is generated in clouds Agni is called Apam napatoffspring of water (2, d5 1) Agin thou art kindled in the bosom of water (apam 8 25 5) Between two stones (asmanor antar) Agni is generated (2, 12, 3 by percussion) As an infant (sisu) newly born the kindling sticks (arani) here brought thee (Agni) to life the supporter of the tribes of man and of orderly sacrifices (6 9 8) The fire drill is called Pramantha (Karma-pradipa 1 75 /mat=to whirl to churn. Skt mathana = a piece of dry wood which is rapidly whirled round in another dry stack to produce fire mathana = churning mathita-churned buttermilk Lat. mit-tereto throw missile Lith nosti-to throw Russ, metaleto throw Gk. mit-os = a thread of the woof) It is said Prometheus stole fire from heaven It is more reasonable suppose that it is the generation of fire through the friction of fire sticks. It is also said that Prometheus created man out of earth and water Agni is also the creator of all things (bhusand janayam 7 5 7) Agni is called yavintha, ever youthful Hephaestus) for "Agni when old and worn out becomes young again (2, 4 5) He who was worn out at night becomes young again (1, 144 4) Hephaestus is said to be lame for the fire spreads slowly by jumping movement because he represents the lightning he is said to have been hurled from the heaven by his irrate father Zeus because he forge fire he is said to and a clever artisan The Roman Hephaestus is Vulcan. Vulcan's festivals were Fornacalia or Furnalia he being the god of furnaces His temple was built by Romulus with that of Vesta and who planted near it the sacred lotus tree (Zizyphus lotus Jujuboe italicoe) which still existed in the days of Pliny Vulcan is derived from the same root as Skt. Ulka spark of fire ; burning meteor Varcas also means light and brilliance O Agni thy light (Varcas) in heaven (as a constellation Ara) on earth (prithivyam volcanic fire), in the plants (oshadishu for generating fire through friction of

wood and fuel for keeping fire) and in waters (apsu: lighthing (3, 22, 2) According to Avesta (17 Yasna, 1-11) and the Hindus there are five kinds of fire, (pancagni). Berezi-savanoh (baravagni-volcanic fire or fire from natural vohu-fryana (Skt Jatharagni - animal heat through oxidation of the tissues), urva-zista (Skt indhana, fuel from plants), vazista (Sk. Vaidyuta = lightning), spenista (hearth fire). Let this offering be for the fires which are in the waters, in Vritra (Hydra), in man (as animal heat), in pyrites and those which are in plants (for ripening fruits) and in trees (to be used as fuel: Av 3 21 1) O Agni, what light of thine is in heaven, on earth, in the plants and in waters (3, 22, 2) Bhuianya (1, 68, 1, 6, 62, 7 means clever and active. Bhuranya is an epithet of Agni (1, 68, 1) and of Asvins (6, 62, 7) In Gk mythology we have one Phoroneus, son of Melia (ash-tree) out of whose wood by friction fire was generated for which ash tree was not only sacred in Greece but also the Germany, and Inachus (a rivei in Argos where the Aryans possibly settled) who was the ancestor of the royal family of Argos and builder of towns (asty phoronikon) as Agni is Vispati (8, 23, 13) and boin alive out of dry wood (1, 68, 2). Phoroneus became goddess Feronia in Italy At her annual festival and fair, the priests (Hirpi) walked baiefoot over burning coals and people used to offer her the first fruits of their fields. Angiras (I, 31 1,)—is burning coal—ember The fire and its curling smoke are called messenger (duta) to gods (3, 5, 10 Gk aggelos, Lat, angelus—a messenger O Per angara Darius time Angel is divine =a mounted courier of angelus messenger) from Lat messenger Messenger from Lat angelus messenger) like Agni Athari (4, 1, 8) is flame Atharvan (6, 120, 9=fire-priest, Atharyu (7, 1, 1, flamming Av Athar, atar-fire, Gk aitho=flame Men have brought banners—the quick messenger of Vivasvat who comes towards all men, who is brilliant (bhi igavānam) in every settlement (4, 7, 4). When Matarisvan had produced him by friction, the noble one who was brought to many places came to every house. Then the brilliant (bhi igavānah = Agni) undertook the messengership as for a mightier king, being attached to him (1, 71, 4). Wise Bhrigus (Bryges) discovered Agni (X, 46, 2) and

established it among men (158,6) and preserved it inhighfiaming wood for service and adoration (6152) The most excellent luminous (uttams rocantinam) Agni supported with his fiames the height of heaven (lightning) The Bhirgus (Bhyrges) kindled the fire when Agni lay hidden (8510). Aur-ora - dawn Heatis was the goddess of fire and the domestic hearth: Hestia was a maiden divinity As the giver of domestic happiness she dwelt in the inner part (hearth) of every house, and hearth was recognized as a place of refuge for suppliants. As the goddess of fire Hestia was invoked at the commencement of every sacrifice the first part of which was presented to her Before eating milk honey and cakes where offered to Hestia She had few temples in Greece, but in every prytameum (town hall) in the towns of Greece she had a sanctuary with a statue and a hearth upon which burned the sacred fire lighted by friction or by the concentrated rays of the sun Vesta formed the underlying centre of the religious feeling of the Boman mythology Vesta was not represented by any statue or image in her temples, but a perpetual fire burned on her altars and each Italian city or community had raised an altar to her The Vesta of the Roman Empire had her temple at Lavinium on the via Appia 20 miles from Rome and hither the consuls and other high officials of the republic went to offer up their sacrifice before entering on their duties. The Vesta of the city of Rome had her temple in the Forum near that of the Penates and here she was served by her own priestesses—the Vestal Virgins-and a festival-the Vestalia-was celebrated in her honour on June 9 The number of the vestal virgins was originally four but afterwards six They were chosen by the pontifex maximus when between 6 and 10 years old, and they pontifex maximus when between 6 and 10 years old, and they served the goddess for thirty years, spending 10 years in learn ing their duties, ten in the actual performance of them and ten in teaching them to the novices after the fulfillment of these services they were at liberty to marry. The Vestals were chosen of free-born respectable parents having both parents alive, and free from physical and mental defects. She was dressed in an ancient costume to that of a bride. Their principal duty consisted simply in keeping alive the sacred fire on the altar of the goddess day and night and thereby the guardianship of the

holiest which the Roman life contained was entrusted to them The extinction of fire was regarded as emblematical of the extinction of the state; on such occasions and once a year (March 1) the fire was rekindled by friction of wood hold vestal hearth fire was usually attended by daughters Though it was the householder's duty, as he and his sons were out most of the day and his wife would be busy with the housemuch of the actual preparation of the food also fell upon the daughters as they became old enough. The girls originally attended to the hearth fire as soon as they became 6 to 10 years old for 5 years till they were old enough for betrothal and marriage Herda (hearth) was sacred in ancient Germany It was placed in the right corner of the dwelling The householder kneeled before the hearth-fire on rising Maidens prayed to her for securing husbands Criminals made confession before holy Herda, Loki (Lucifer) was the god of hearth-fire of the Norwegians who poured cream milk with shouts of Loki. It seems Loki was the smithy of the Teuton, as Vulcan was that of the Romans and Hephaestus of the Greeks To the Lithuanians hearth was the Ugnis Sventa (sacred fire) In the evening when covering it up, even in the 17th century, they used to say-Szwenta Ponyke ugnela (sacred little fire), I shall cover thee very nicely that thou be not angry with me In Samland even between 1526-1530 A D the bride used to address the fire, "O my dear sacred little fire (oho mey mile swente panike). Among the Lithuanians there were two kinds of fire-male and female Female. fine was called Ponyke and the male fire Yagnanbis (Skt yagnabhuj = enjoyer of sacrifices = Agni A Carnot Les Indo-Europeans P 203) Gibil (Juhurala) and Nuske (Damu-nas) were the Babylonian fire gods Vavu is Breeze, Vata = wind √Va=to blow, Skt Vātā=Lat ven-tus-wind Lith jas = wind, wetra = a storm Ger wehen = to blow gentle breeze, refreshing and purifying from the womb of space (1, 134, 4) It is the friend of Agni, for it stirs up fire Because breeze breathes, it is called anila (\(\shamble \text{An} = \text{to breathe} \) Skt anala-fire that breaths Gk an-emos = wind, Lat. anaimus = vital breath. Goth. uz-anan = to breathe out; Icel anda -to breathe, ond = breath) Vayu is an important deity of

the Zoroastrians (14 Ram Yast) Vata is the storm wind (GeVa wut-fury, Lat Vates divine, venta wind It is the Hellenic Boreas the god of the north wind and Russ, Bully of storm Venti was personified Vata Whotan Wodsty Woden of the Anglo-Saxons and Odin of the Teutons; originand warner Later Odin, headed the Teutonic pantheon acn nrisoners of war were sacrificed to him After Woden, Wednidday has been named. Pavana is the gentle vernal breeze ladhe with fragrance of flowers the Roman Favonius (correspondit ing to Gk, Zephyrus) which produced flowers and fruits by sweetness of his breath. Pavana delightfully comes with all murmurana sound /Mar-to murmur 8kt mar mara - mbe ling of leaves Gk. mor myssein, Lat mur murare, Ger mi It Vayu is the light footed messenger of tril. meln = to murmur gods Vavu is represented by Arcturus (Svati) in Bootes. gous vayu is represented to the later part of Apins or so the meridan at midnight in the later part of Apins It is 51 light years distant. It is a yellow star of the notific the fourth in order of brightness in the entire heavens and Plil about 100 times the brightness of our sun Vayu is Amorite Rammon who rides triumphantly on the air Eiart (Anila) was their storm god YAMA and YAMI as well as Asvied are the two pairs of twins of Saranyu (the sky of the last pine of the night Gk Erinyes) daughter of Tvashtri (identifind with Visvarupa 8 to 19 Scorpio) and Vivasvat (Aries) Asvier are Pegasus and Equileus Yama and Yami are Perseus of Andromeda. Tvashtri makes a wedding for his daughtest whereupon the whole world comes together the motherom Yama having been wedded, she who is the wife of the grass Vivasvat vanished (x, 17, 1) They hid the immortal one frind the mortals having made one like her they gave her to Vin x vat, when that had taken place, she bore the two Avins, ing Saranyu left behind the two twin couples (diva mithuna 17 2). Yaska explains it by saying that Baranyu after haded given birth to a twin—Yama and Yami—ran away in the for bot mare. Vivasvan then also assumed an equine form, couply with her who then gave birth to the twin—Asvins. In Grim legend, Demeter's daughter Persephone in order to escal Poseidon assumed the form of mare But Poseidon changed b

self into a horse and coupled with her who gave birth to a horse Arion and Despoena. At Arkadian Phygalia there was a bronze statue by Onates, representing goddess (Erinyes) with a female body but with the head and mane of a horse and surrounded by serpents Demeter was also called Erinyes and her lover was Iason (Vivasyan = Aries) Who died the first of mortals, who went forward the first to that world, serve with offering the king Yama, the Vaivasvata, the gatherer of men (Av 18, c, 13), Fair Yima, the great shepherd, the first mortal. son of Vivanghat (Vend Farg 2, 1-2) Yima also is a Twin (Yasna: 30, 3) Death passes through the path of Yama (1, 38, 5) Yama and Yāmi are twins (x, 117, 9) Owl (Uluka) and dove (Kapata) are the messengers of death, Yama (x, 165, 4). Two four-eyed (four-eyed bitch Av 4, 20, 7) broad-nosed, brindled (sabala) brown (udumbala) dogs (sarameya Canis Major, Canis Minor) guard the pathway (the Milky Way) of Yama (Perseus) Agni is the friend of Yama, for by fire consuming the dead, he sends the purified soul to Yama (x, 16, Yama with the gods lives on a tree (X, 135, 1, the lunar dark tracings were regarded as branches of a tree) Yama and Varuna (X, 47, 7), Brihaspati (X, 13, 4) and Agni (X, 14, 3), and Pitris carouse with ever youthful damsels (Svadhā. ×, 14, 7: stars). In the Avesta a four-eyed yellow-eared dog keeps watch at the head of the Cinvat Bridge (Milky Way) In ancient Greece and in China a coin was placed in the dead man's mouth, intended as a fee for Charon (Can's Major), the ferryman for ferrying the soul over the river Styx (Milky Way) Zapoteks killed a dog and the Garos still sacrifice a dog to act as a guide for the dead man when they burn its body Sarameya is Gk Hermeias and Saramā is Gk. Hermes Hermes as the herald of the gods was employed to conduct the shades of the dead from the upper into the lower world (Virg Aen, 4, 242) The Heavenly Dog (suna divyasya) flies in the aerial region and the three Kālakānjas (three asterisms in the belt of the Orion) are set in the sky (Av 6, 80, 1-3) The dog (Canis Major) hunts the boar (Lepus) and bites the ears of Vrisakapi (Monoceros. ×, 86, 4) The spotted (sarvara) dog is Gk Cereberus which guarded the River Styx which had to be crossed by the dead. The Egpytian jackal headed Anubis watched

the dead. Persons (Yama) is a northern constellation the figure of which represents a fighting man in a singular posture holding a human head (Gorgon) in one hand and waving a sword (Yama dands) with the other and on the heels are attached wings of doves Andromeda (Yamı) represents a woman bound to Perseus and contain three stars of second magnitude, Alpheratz Perseus and contain three stars of second magnitude, appearant the head, Mirach in the waist, Almak on the right foot. Perseus contains two very fine stars clusters of bright stars, visible to the unaided eye looking like bright patches on the Milky Way although they are much nearer than the stars of of the Milky Way Beta Perseus (Algol) is a binary variable star. The bright and the dark stars revolve around one another every 2 days and 21 hours and eclipse one another in so doing Gamma Andromeda (Almak) is one of the most beautiful of all double stars the brighter star pair is yellow in colour and the smaller is bluish green and the two stars have been compared to a topax and an emerald. The emerald star itself is composed of two stars. These are found to revolve around one another one every 55 years. The stars are at about 400 light years distance and so must be very luminous by themselves. Nesr Mirach is the Great Nebula of Andromeda which is situated at the distance of 800,000. light years. Light travels 11 milion miles in a minute and so about 6 million milhon miles in a year which is the astronomi cal light year Andromeds is the brightest of the spiral nebulæ. It is an island universe contains millions of stars like our solar system, though possibly of smaller dimension and light takes nearly 50 000 years to cross from one side to other According to Gk. legend Cassiopers boasted of the beauty of her daughter Andromeda It made the gods angry To placate the angry gods Cepheus (Arvaman) chained his daughter to the rocks. But the gods sent Cetus (Alii Budhnya) the sea monster to devour her Suddenly Persens appears rid-ing the flying horse Pegasus (Asvins). He has just killed Medusa, the Gorgon whose glance turned everything to stone and carnes her in his hand. Dismounting kicking up a cloud and carries her in his hand Dismounting kicking up a cloud of dust (a crowd of faint stars) he presented the Medusa s head to Cetus, turning it into stone and immobile and rescues Andromeda by cutting her chains. Canis Major (Mriga Vyadha)

is the Great Dog and Canis Minor is the Little Dog facing each other across the Milky Way near Monoceros (Vrishakapi), Egypt. Thout, described as baboon, assistant of the sun and scribe of the gods = Hanumāna) Canis Major has Sirius (Tishya . 5, 54, 83; Av Tistrya), the brightest white star in the sky, but as a result of its twinkling it appears to flash forth scintillation of varied tints in rapid successions. It was called the Dog Star (Egypt Sopded, which the Greeks called Sothis), and its rising at the same time as the sun in midsummer was a great festival in Egypt (the birth day of Isis) as it coincided with the Nile flood Sirius (sparkling) is about 51,000,000 million miles distant (8 6 light years) and has the luminosity of 26 3 suns. If Sirius were suddenly to replace the sun, even the polar ice would quickly boil away. But Sirius is a binary star. And its companion is a very dim star, sending us about a ten-thou-sandth part as much light as Sirius does. It is not only faint to be shrouded in the glare of the Sirius, but it is gripped by its gravitational pull and it does not move in a straight line, but goes round and round Sirius The bright star Procyon (Pravasa) of Canis Minor has also a faint companion which gives less than a hundred-thousandth part of its light Procyon has the distance of 104 light years and has the luminosity. of 53 suns Yama and Yamı are the primeval Indo-Iranian pair Yama remains in the highest heaven with Yāmi (Ts. 14,45) Avestan Yima with his twin sister Yimeh formed the first human couple Their dialogue poem (x, 10) is reminiscent of the time when brothers and sisters used to pair together, but it fell into disuse. Yama is Babylonian Pir-Napishtim. Asvins (Nasatya=Kkatti, Mitanni Nasoatya, Avestan Naonhaithya \sqrt{Nas} —to go to or a place to go to. Skt nida—Lat. nidus—Lith l(n)izdas=Ger nest—nest Gk neomai=I go, nostos = a return home Nasatya = one who returns regularly, according to Siddhanta Kaumudi, na-satya = asatya na asatya = Nāsatyā (not untrue) are the flying horses Pegasus and its companion Equileus Asvins are lords of lustre (8, 22, 14) of golden brilliancy (8, 8, 2) The car of Asvins is golden (4, 44, 4) with three seats, three wheels and three fellies (1, 118, 1) which are all golden, flying in space (1, 180, 1) Their car is drawn by horses (1, 117, 2) and eagles (1, 118, 4) at a speed

swifter than thought. At the yoking of their horses Divo Duhita (Ushas = Eos = dawn) is born (× 39 12). Asvins follow after Ushas in their shining car (8 5 2) They wear lotus garlands (× 18, 4, 2) Their car moves round heaven (1, 180 10) Asyms rescued from the laws of a wolf (Lepus) a qual (cartika, Gk. ortyx) Pegasus in an ancient constellation The figure represents the forward half of a winged horse centre of the constellation is about 20 north of the equator and 4 bright stars in it form a large square. Equileus represents a horse s head lying west of the head of Pegasus and its bright star is of fourth magnitude. In Pegasus there is a cluster of 162 nebulae mostly at a distance of 103 million light years or more and each contains enough material to make a star island of thousands of millions of stars. With Alpha Beta and Gamma Pegasi with Alpha Andromedæ (Alpheratz – Uttara Bhadrapada) the Great Square of Pegasus is formed which is conspicuous in the sky like the Great Bear and the Belt of Orion. Merkab at the junction of the wing and the back the Pegasus is known as Purva Bhadrapada Gamma Pegasus (Algenib) - Gopada According to Greek legends Pegasus is the winged horse of the gods. Medusa the youngest of the Gorgons, once a beautiful maiden was loved by Poseidon who often assumed the form of a horse or ortyx and Pegasus saved Ortyx from the wrath of Athena who transformed Medusa into an ugly monster It is said that 9 sisters - Pierides were rivals of the Muses. When Muses broke forth into song the sea sky and rivers stood still to listen and Mt Helicon rose heavenward with delight Poseidon advised the winged horse Pegasus to stop the ascent of the mountain by kicking it Pegasus obeyed and from the spot where he kicked a fountain called Hippocrene (horse-spring) gushed fourth which was over after the inspiring fount of the Muses The defeated Pierides were changed into Ortyx. Pegasus was employed by Eos or Aurora, the goddess of morning "Ye (Asvins) poured forth from the hoof of your stronger charger a hundred lars of wine as from a strainer (1, 117 7 1, 117 6 Kalshvard Darryhata masa) Asvins with their three wheeled car (tricakra) herald the advent of the vernal season (madhu vahana 1 15 7 8 1 90 6) Pegasus in May appears in the morning sky on the

ecliptic with the Venus (Vena, 1, 34 2). Three wheels are the three asterisms-Markab. Scheat. Enif AHI BUDHNYA is Cetus —the Dragon of the deep (Budhnya-Gk. python, from pythom-bottom) "With praises I sing to Ahi Budhnya who stays in the upper region under the River (Nadi-Eridanus 7, 34, 16) Let not Ahi Budhnya harm us or refuse to accept the sacrifice of this servant (7, 34, 17) Cetus (Gk Ketos) is the largest constellation, situated at the middle bend of Eridanus. It contains two second magnitude stars and nine of third and fourth magnitudes The variable binary star Omicron Ceti (Mira Ceti) is its chief glory. Mira Ceti is so large that 30 million suns can be packed inside it. But it has a faint white companion, thus forming an incongruous unequal pair. The light of Mira Ceti continually changes with a period of about 11 months and exhibits extraordinary fluctuation of brightnesss From a faint telescopic star of ninth magnitude Mira slowly brightenes up to sixth magnitude when it becomes visible to the naked eye Within 4 months it becomes a second magnitude star when it gives 500 times more light than in ninth magnitude, for which it is called Mira = wonder-star remains 1.8 star for about a month when it begins to decline and in five months it is again in the lowest ebb of its life.

Saraswati is Eridanus Sarasvati dwells in high heaven (5, 43, 11) Sarasvati both dwells in sky and in earth (6, 61, 11) Sarasvati in divine (asuryā · 7, 96, 1) Eridanus is the serpentine celestial river. It is the longest constellation of the sky. It contains nearly 300 stars which are visible to the unaided eye. Yet none of these except Achernar (the End of the River) is brighter than third magnitude. From Achernar it flows away to the north through a succession of bright stars. Achernar is at a distance of 70 light years and has the brilliance of 200 suns. The Egyptians had their divine Nile, and the Babylonians their divine Euphrates in the heaven. Nāva is the Argo Navis on the Milky Way (Samudra) and named after its ship-like resemblance with hull, keel, stern and sail "O Pushan, thy golden ship (Argo Navis) travels across the ocean (Milky Way) in the sky (aniariksha 6, 58, 3). Argo Navis is the largest constellation in the heaven and is very conspicuous in the southern sky. The brightest star of Argo

is Canopus (Pur Agastya) which is second only to Sirius in brilliance Nava-Gk Argo made by Argus in Egyptian mythology Horus (Pur *Hara*) as a ferryman (Conopus in Hindu astrology Agastya Fatri to the south is in auspicious) ferries the Re of the dead on the boat (Argo Navis) PTRIS (ancestors—Manes) dwell in glowing light (x 15 9). They decocestors—highes) dwell in glowing light (x 10 v). They decorate the sky with constellations (x 68, 11) They are self-luminous and rise in the dawn (7, 76 4). Pitris are situated in the centre of the heaven (x 15 14) The Pitris are the guiding spirit of Magha—Regulus, the brightest star in Leo. In Egyptian mythology Osiris, the ruler of the dead, is represented by a hon. Leo being associated with summer solstice, there is a high mortality in this season of epidemics. The Hindus still make offerings to their Pitris (ancestors) in the new moon of Simha (Leo) Leo is an ancient zodiacal constellation containing Regulus a star of magnitude 11 and two stars of second magnitude. It is easily found, for the pointers of the Great Bear point southerly to its brightest star The stars in the body of Leo form a characteristic trapezium and those about the neck and the mane make a sickle. Regulus (Ruler - Magha) is in the head of the Leo and is at the distance of 56 light years and has the luminosity of 70 suns. The second brightest star in the sickle Gamma Leonis (Algerba) is a double star and exhibit interesting contrast of colour The brighter partner is a second magnitude star and its fainter companion is of the fourth. From the direction of the Sickle sometime showers of shooting stars come known as Leonids. Beta Leonis (Denebola - uttara Phalguni) is at the end of the Leo s tail. Baby lion headed eagle-Nin Girsu (winged lion) 18 Hindu Narasimha, Egy sphinx, Avestan Nairyosangha Hansa is the Oygnus (Gk. Leda). In the Milky Way is the heavenly swan clothed in light (4 40,5). The swan is golden pinioned (hiranya parna) and is seen in the morning sky (4,454) Hansa moves radiantly in Celestial Water (apam dvyanam – Milky Way × 1249) In the Greek legend Zeus in the shape of a swan seduced Leda. Cygnus is a northern constellation in which Beta Cygni is a fine coloured double star consisting of a yellow star of 3 mag and a blue star of 5 mag lying at the beak of the long outstreched neck of the swan

Alpha Cygni (Deneb) at the distance of about 600 light years has the luminosity of 10,000 suns. The Amorite goddess Bau (Gula) rides the celestial waters (the Milky Way), seated on two ducks, symbolizing certain stais. The Hindu goddess of learning—Sarasvati rides over a swimming swan VANA-VINA is the northern constellation Lyra in the shape of a haip. It causes the sound of the waves and whistlings of Maruts (1,85,10). Vina (Vs 6,1,4,1) is a divine instrument Hermes, the messenger of Gods, was fond of playing on Lyre Naiada (Cepheus), the messenger of gods, friend of Krishna (Hercules), is fond of playing on lyre Egyptian dwarp Bes (Cepheus) had his favourite lyre Lyra contains the fourth brightest star in the sky-Alpha Lyra (Vega = Abhyit). It is at a distance of 26 light years and has the luminosity of 50 suns Beta Lyræ is an eclipsing Valiable with a period of 12.92 days; the system presents some abnormal features perhaps due to the low densities of two components Epsilon Lyra is a double As two components are twentieth of a degree apart a good eye sight in a clear night shows them separately; a small telescope shows that each of the two constituents is itself a double star. The Ring Nebula in Lyra is the largest and brightest example of this kind of nebulæ. Nārada is Egyptian Bes. Apollo made the tortoise shell lyre

Saptarshi (Av Haptoiringa . Shirozah 13) is the Ursa Major, containing seven bright asterisms, a very striking feature of the northern sky Saptarshi (Ursa Major) is beyond Visva-karman (Hercules ×, 82,2) The Riksha (Bear = Ursa Major) set high in heaven that shines at night, where does it disappear at day (1,24,10)? Seven Rishis (Sat Br 2,1,27) are regarded as seven stars in the Great Bear and are stated to have been originally bears. The seven conspicuous stars of the Great Bear (Dipper) are (1) Alpha = Dubhe (Dhurva = Kratu); (2) Beta = Merak = Pulaha, (3) Gamma = Phecda = Pulasta, (4) Delta = Megrez = Angiras, (5) Epsilon = Alioth = Atri, (6) Zeta = Mizar = Vasishtha (7) Eta = Alkaid = Marichi Mizar having a double star is called Vasistha and his spouse Arundhati. Some name Alcor as Arundhati Egy Seth Typhon, bringer of evils Ursa Minor = Tuart = Hippopotamus

SVENA (Av Svena Yast 41) is the Aquila, the flying eagle

or vulture with outstretched wings the Hawk of the Egyptians The Milky way is here divided into two branches. Several Novas have appeared in this constellation and Novas HI in 1911 attained a brightness only alightly inferior to Sirius. Its brilliant star Altair (Sravanā) is at a distance of 16 light years and has the luminosity of 92 suns. Svena stole Soma (=amphora-Aquarius) in the heaven (4,278). Vulture was secred animal of the Egyptian and Babylonians. The vulture with outstretched wings held in her beak or claws the Ankh of life. Garura (eagle) became the standard (Garura dvaja) of Vishini, He also became divine messenger. In the Grook leagend Zeus in the shape of an eagle (Aquila) carried off Aigins (amphora Aquarius) that is stole the prominence of Aquarius by its brilliant star took the place of rodiacal Aquarius. Zu stole from Baal Tablets of Destiny which gave him power over the universe as a collector of the fates of all. Aquila was represented by the Roman eagle, the double-headed eagle of the Khatti (Hittite) and of the Georgen and Brusera Empires.

and of the German and Bussian Empires

Visvabura is Scorpio Visvarupa is three-headed and seven rayed (tri-sirthaman sapta-tamin x, 8 8,) and sur eyed (x 99 6) Three heads are the two nippers and the cephalo-thorax. Seven rays are the 4 pairs of walking legs According to the Greek legend Orion having boasted to Diana and Latona that he would kill every animal on earth, these goddesses sent scorpion which stung Orion and Zous raised the scorpion to the sky Scorpio is a zodiacal constellation. In the heart of the Scorpio there is the bright star Antares (-rival of Mars-Jyesthā) at the distance of 380 light years and has the luminosity of 4000 suns Of all the stars in the sky Antares appears the reddest being followed by Betelgeux in Orion and Aldebaran in Taurus. These three stars are red giants Antare having about 450 times the diameter of the sun Betelgeux 300 times and Aldebaran 40 times Vasus are represented by Delphinus (Danishti) Vasus are numbered to be 8 giver of prosperity and abundance. The striking small constellation is situated between Oygnus and Aquila, not far from Altar of six asterisms of Delphinus 2

are prominent, two appear dimmer. Gemma Delphini is a double star. Yellowish component being magnitude 4, and the bluish component of 5th magnitude

INDRA (Av Andra, Verethragna = Vritrahan Khatti-Mitanni Indar) is Centaurus Indra (Centaurus) with his thunderbolt is transfixing the boar (Varaha = Lupus) (1.61.6-7) Centaurus southern constellation (invisible nothern Europe) with repesentation of a human in front with the body and hind legs of a horse attached to the back, rich in bright stars and globular clusters Alpha Centauri is the third brightest stai in the sky and is found to be our nearest neighbour The distance is 4 31 light years is a yellow star and has the luminosty of 13 suns being situated within 30° of the South Pole it is not visible in. northern latitude Beta Centauri lies within 5° of it juxtaposition of two first magnitude stars is not found elsewhere in the sky Beta Centauri is at the distance of 300 light years and has the luminosity of 3000 suns Our nearest star is Proxima Centauri Though it is nearest to us, it is 25,000,000 miles and 270,000 times as distant as the sun, that is 427 light years, yet it is so faint that it has only the luminosity of 20000 of our sun Omega Centauri is the first example of a globular star cluster; it is possibly the nearest object of this class, but the distance is no less than 20,000 light years Photographs of it show more than 6000 stars within a circle of 20 feet diameter, but the actual number of stars must be much greater. Centaurus (Indra) is in ascendency from April to June and then inclines owords the southwest and becomes invisible in August northern latitude it is not at all visible But about 4000 years ago, when the Pole was at Thumban, about 17° further south, upper parts of Centaurus were visible from the latitude In the Vedic age Indra became supreme because the ascendency of Centaurus coincided with the Rainy Season. (S W Monsoon), very important for an agricultural people It is the season of thunder and lightining. So he became the irresistible god of war Indra represented the sky from vernal equinox to summer solstice in the ascendency of Centaurus Later up to autumnal equinox he remained the companion of Varuna. India in the summer solstice is held aloft like a pole (1,10,1).

Indra is called Maghaban for the enters into Magha (Regulus in Leo) during summer solstice and thus become the slayer of Virtra (Hydra which then becomes invisible × 23 2) Virgo is just above the head of Centaurus Indrani the queen of Heaven Indra absorbed many qualities of Dvans as a thunder god and practically subordinated him in the pantheon, as Thunne (Thor-Tyr), the Teutonic god, took the place of Zeus Both Indra and Thunre (Thor) are storm rain and thunder gods they are equally irresistible warriors insatiable gluttons, drunkards and profligates Lith. Perkuna is also a god of thunder and lightning Indra—shuning visian—to thunder Skt stanita—thunderring Gk sten-ein Lith, stenate—to groan Lat ton are—to thunder Thunar—Thor Tyr—thunder Tuesday

NRITHA (Av Verethra Gk orthros) is Hydrn—the water snake—lying north of Centaurus and Argo and south of Virgo and Leo It contains one star of second magnitude, and about 400 stars are visible to the naked eye. At Arslan Tepe a Khatti barrelief shows a bearded Khatti god with dagger and club is combating a many headed serpent coiled in the water. The serpent's open mouths and tangs are thursting to strike ULURA is Corvus—the owl (or raven) on the body of Hydra below Virgo. Uluka is the messanger of death (× 1654,) Parsis expose their dead to be devoured by ultimes owls and ravens. The Hindus still make the ravens eat the offerings made by them to their ancestors.

of a raven with 4 stars of second and third magnitudes PRAJAPATI is the Orion There is a story (AB 3, 33) that Prajapati being enamoured of his daughter Usha (Eos) followed her Ush changed herself into a female deer Rohmi (Taurus) At this Rudm (Sagittarius) being meensed at the father copulating with his own daughter (X, 61, 6) aimed his arrows at him The Belt or Girdle of Orion contains a number of bright stars in straight line to Orion and Taurus Taurus is called deer for deer and built resemble each other Sat. Br (2, 1, 28) says that Mingasira (G Orionis-Bellatrix) lies in the head of Prijapati (Orion) In Gk. mythology Artemia (Sagittarius) a huntress armed with bow, quiver and arrows, aimed her arrows at Orion. a handsome hunter as he attempted to rape Eos—the dawn

maiden-and changed Eos into a deer, because she was bathing naked. In Babylonia Orion is Tammuz and in Egypt Orion is one of the most conspicuous constellations, in configuration of a gaint with a sword in right uplifted hand, shield in left hand, a belt in his waist and left foot raised. containing many bright stars Betelgeux (the arm-pit) is the brightest star of Orion and twelfth brightest in the sky. Because it shines with a deep red light, camera exhibits it fainter than the three stars in the Belt of the Orion Betelgeux (Adiā) is 25 million times as big as our Sun, and 300 times its diameter, but containing only 40 times its substance Betelgeux is at a distance of 200 light years and has the luminosity 1200 suns A little to the right of the Belt of Orion and below it is the first magnitude star Beta Orionis (Regel = Vāna Rājan), the seventh brightest star in the heaven, distance of 500 light years and has the luminosity of 15000 Exactly below the middle star of the Belt of Orion is the Swordhandle which contains the great nebula of Orion which can be seen with naked eye The multiple star Theta Ononis (Mintaka) is near the centre of the nebula It seems that the principal stars of the constellation form a single system and are involved in the nebulosity whose luminescence is stimulated by intense radiation of light of short wave lengths

BRISHAVA (1, 116, 18, Mriga X, 86, 2); Avestan Geush By 7) is Taurus—The Nandi (Bab Ninup) Bull of Siva (Ophiuchus), Appis Bull of Osilis and Golden Calf (Ex 32) of the Bible The Greeks fabled this constellation to be the Bull which bore Europa across the seas to Crete and was afterwards raised to the heaven by Zeus Aldebaran is the principal object in the Hyades Taurus represents the forward part of the bull Sakaduma appears to be the Pleiades (Kritikā), the leader of the hosts in the speckled (ruddy) Taurus (1 164, 43, Av 7 128, 1-4) Alpha Taurus (Aldebaran) is at the distance of 57 light years and has the luminosity of 90 suns Because Aldebaran is a reddish star of first magnitude, it is called Rohini (reddish) Ganesa is Aldebaran, is vermillion hued Aldebaran is in eyes of Taurus, and the head of the Taurus seen upside down, the head of the Taurus was regarded as the head of an elephant and the two horns are the two tusks of the elephant.

Because of the prominence of Aldebaran (Rohini), Ganesa is the wisest and scribe of the gods (Baby Nebu) and is entitled to the first offering in the beginning of every worship Janus was wor shipped by the Etruscans and Romans as the deity who presided over everything From Janus January the first month of the year was named. Pleudes form a striking group even to the unaided eye of physically connected stars all moving through space together with the same speed and in the same direction like a flock of wild goose For this reason Pleiades (Sakuduma 1 164 4+ Av 6 128, 1) represents Kartileya and at the unnction of Kartika (Pleiades) with the full moon, Kartika as a commander of a divine army (dava san1) is wor shipped. Baby Ninip (Nandi) was a bull connected with phallic stone worsphip. There were winged (Aquila) bulls with heads Cretan Minotaur had the human body with bulls head PUSHAN (Gk. Pan-Lat. Faunus) is Auriga Pushan appears early in the morning with Viva (Arcturus 7 89, 2) and disappears with sunbeams and lustre of Savstar (X, 189 1) Pushan's golden ship (Argo) floats in the heavenly ocean (Miky Way) on an embassy to Surya (6 58 8) Pushan in his right hand (6 54 10) holds a goad (ashtra Av astra (6, 5-8, 2) Pushan, as charioteer guides through firmament the golden wheel of heros car (6, 56 3) Auriga = charioteer (Gk. auros = swift + ager - to drive - swift driver) He is provided with a goat (als 1 162, 2-3) His car is driven by goats (1 88 4) Pushan is the protector (pasupa) of cattle (6 58, 2) Pushan arranged the marrage of Asvins (Pegasus and Equulous) that use early in the morning before sunrise with Surya (the dawn maiden -the rays of the Sun X, 85 14) The Greeks conceived Auriga constellation with the configuration of a man in a more or less in a sitting posture with a she goat and kids in his left hand and a bridle in his right Capella its bright star means she goat, while the Haedi-kids Capella (Brahma Hridaya) is the fifth brightest star in heaven. It is a binary star at a distance of 52 light years. Its two components emit respectively 105 and 30 times the light of the Sun revolving round one another in 104 days. Both are yellow giants. The larger star has about eleven times the diameter, thus about 1300 times its

volume, yet only weighs 41 times as much as the sum. The junior partner has half the diameter of the senior and about # of its weight Beta Aurga (Menkalinan) is also a binary, larger than the sun, revolving round one another in less than 4 days, thus eclipsing one another in so doing and the light of the star shows temporary dimming But its components are of equal brightness and have the brightness of 50 suns and situated at a distance of 100 light years Baby Enkindu (Eabani) has the legs and hoops of goats like Pan KAMA-RATI is the Gemini, Hindu Ardha Narisyara = Gk. Dionysos androgyne, Eros androgyne, Herm-aphrodotos, Egypt Neith) It is the Hindu Hara-Parvati, Isa-Isani in eternal copulation, the Egypt wind god Shu in sexual congress with his consoit Tefnut, Syrian Bāāl (Bhola-nathā, Bālesvara) and Astarte = Isvari, Belit = the lady), Gk Dioscuri (Castor and Pollux, Pedarasty was very popular and fashionable among the Greeks), Pelasgian Dionysus and Bacchante, Roman Liber and Libera Gemini is a zodiacal constellation lying east of Taurus on the other side of Milky Way It represents two youths Castor and Pollux sitting sitting side by side In the heads of twins respectively are situated the two bright stars which go by their names-Castor the West, a greenish star intermediate between the first and second magnitudes, and Pollux to the east, a full yellow star of first magnitude Castor is a peculiar binary star. component is about half as bright as the other, having the luminosity of 23 and 11 suns, at the distance of 43 light years Their combined weight is 51 times of our sun and revolve round one another in 306 years. But they have a faint red companion Alpha Geminorum C which only gives of part of the sun light and is invisible to the naked eye Again of these 3 partners are spectroscopic binaries. They cannot be detected by telescopic observations. But spectroscopic nation shows that each star consists of two partners moving at different speeds The periods of the revolution of these spectroscopic binaries are 9 22 days for the brightest star, 2 93 for the second brightest and 20 hours for the Alpha Geminorum C. So Castor is a colony of 6 stars Pollux (Punarvasu) is the fifteenth brightest star of the sky at the distance of 32 light years and has the luminosity of 28 suns Zeta

Gemmorum is a Cepheid Variable in a period of 10 15 days. Kāma - love /kam - to desire love Skt Kamaniya - Kāmya - desirable Kamra - charming; Cāru - pleasant Lat carum - dear (c) amare - to love; amors - to love Rati - delight sexual pleasaure / Ra - to be delighted. Skt rama - to be delighted ramana - delight copulation Gk, eros - love Lith ramas - cat; rimti - to be quiet Approdite - abhra-diti - splendour of of the sky In later Buddha and Jama iconography Kama was represented as Yaksha Kuvera, and Rati as Yakshi, goddess of love, loy fortune and wisdom resembling Gk. Aphrodite Av Masha and Mashyana Bib Adam and Eve

MATSTA (×, 68,8 Av Karo Manyo B Y 26) is Pisces In Bahran Yast (Verethragna killer of Vinthras true genius of victory) there are 19 celestial bodies—shining and bright, in cluding Karo Manya Pisces in a zodiacal constellation (Baby Ea; Gk. Poseidon) represented by two fishes tied together by their tails. In Gk. legend Aphrodite and Eros while on the banks of the Euphrates were surprised by Typhon and sought safety by jumping into the water where they were changed into fishes Piscis Australis is the Southern Fish. Fomalhaut (Mouth of the Fish Piscis Australia) is the twenty third brightthrough of the Fish Fish Adacrams is the twenty time of the eat star in the sky at the distance of 24 light years and has the luminosity of 13 5 suns. Babylonian Ea is identified with Oanes by Berosus by a Babylonian priest of Baal Marduk in third century B O a creature endowed with reason with a body like that of fish, with feet below like that of a man with a fish s tail Ea.in Gilgamesh (Hammurabi) Epic befriended Pir-Napishtim (Av Yums) and advised him to build a vessel so as to be prepared for the approaching delige A fish prophesied a flood and asked Manu to build a ship which it piloted to Naubandhana Atargatis known to the Greeks by a shortened form of the name as Derketo was a Syrian Great Mother fish goddess. Remi was the Egyptian fish god and Schock a crocodile god Baby trinit; is preserver Ea-Vishnu (fish-Matsya is regarded as its incarnation); destroyer Enli (Annia as a storm god a name of Radra Siva); and creator Annia-Bahma; Anni is also a mame of Brahma and Vishnu The upper part of Phoenician Derketo was that of a pretty seductive maiden but the part which extended from thighs to

feet terminated with the tail of a fish. Dagon, the Philistine god was half-fish and half-man, the consort of Derketo Dagon became the Philistine and Phoenician corn god before whom 'golden mice representing your mice that mar the land' was offered. It is the Poseidon—the Roman Neptune—who being the god of the ocean and storms carried lightning trident or three-pronged fish-speal to pierce fish. Poseidon holds a fish in his right hand (N. I. D.), It is likely that Matsya (Pisces) worship originated with the Mediterraneans. The Egyptian ithyphallic god was Min After the annual Nile inundation a thick sedimentary layer of mud is deposited in the delta from which myriads of shrew mice appear, which are soon converted into waving green cornfield and rich golden harvests. Thus shrew mouse was regarded by the ancient Egyptians as the harbinger of agricultural prosperity, sacred at Buto, Athribis Mouse is also the sacred emblem of Ganesa (Roman Janus)

Manduka is Cancer (Ciab) This constellation was known in Babylonia as a Turtle (Pulukku), Egyp Beetle, and in this country for Kurma which is a representative of Vishnu like Matsya Vishnu in the beginning was the sun, later the zodiacal constellations, and finally all the constellations as cosmos (Sisumāia · Matsya P 5, 23) Advaryus (planets) shine throughout twelve monthly orders (ritum = Lat artus) but Manduka (Cancer) is hidden in the rains (monsoon commences with the Cancer 7, 103, 8-9) Cancei (1 Skt Karkata - Gk Karkinos = Lat Cancer = a crab) is a zodiacal constellation but without brilliant stars There is a hazy looking spot between Leo and Gemini known as Plaesepe (Beehive), a curious star-cluster

AJARKAPĀD is the one-footed goat—Capricornus Ahi Budhnya, thunder and firmament are closely linked (×, 66, 11) Ajaekapād rises in the east (Tait Br 3, 1, 2, 8) Capricornus is an ancient zodiacal constellation of winter solistice It is represented in Babylonian monuments having the forepart like a goat and the hind part like a fish. It was conceived by the ancient Egyptian as a crocodile (Sebek). And the Hindus call it now Makara (crocodile) instead of Aja Ekāpad Goat-fish emblem has been found on the Kassite boundary stone. Aryaman is Cepheus. Aryaman was like a comrade (aryamyam. 5, 85, 7). Aryaman is a desired friend (Yasna, 4,

2) brings loys and happiness and removes sickness and diseases (Farg 22, 23) Aryaman is a husband finder (Av 14, 1, 17) and is associated with marriage (× 85, 231; Av 14, 1, 2) Aryaman represents the spring—the season of flowers balmy air love and marriage. As spring is the king of seasona, or as bridegroom s best man Cophens has the configuration of a king bearing that on his head, a scoptro rod in his hands Aryaman is fat-bellied Egypt Dwarp Bes chasing away Capricornus (winter) Later in Hindu iconography it became Yakaha trampling upon winter a pleasant—jolly follow Delta Cephei repeats the changes from brightness to dimness and again flaring up to former brightness regularly in 5½ days Other stars showing same periodic flactuations are known as Cepheid Variables It is suggestive that Armenia night have been ori ginally settled by a clan under the name of Aryaman Darius in his inscriptions (521-486 B C) called the country Armaniya. But it is Assyrian Urartu Babylonian Suvertu, Hebru Ararat the native Biaana - the modern Van MARUTS are visible as light (1 64 9) and they shine brightly (1 64 2) They dwell as luminaries in heaven in sky vaulte luminous sphere (1. 19 6) They remain in the firmsment (5 87, 9). They are red coloured (aruna) wander over the sky (8 7 7) Maruts travel in the heaven (5 5 7,5 60 6) You gleam in the midst of stars as if decorated with rings. You shine with cloud born lightnings as the torrents of rain fall. Rudra the bull has given you birth, O brilliant breasted Maruts in radiant laps of cloudy sky (2, 34 2) Marut is planet Mars the Roman god of war (called Marti Martis Gk Ares Amorite Marduk, ancient form Martu, Marutukku-Kassite Maruttas 14 E. B Marduk) Vedic sardha maruta (the troop of the Maruta) is the Umbrian serpo Martio To the naked eye Mars appears of a bright of a decidedly reddish or lurid tint which contrasts strongly with the whiteness of Venus and Jupiter At opposition it is brighter than a first magnitude star, sometimes even out-shining Sirius. Because it is a planet it was called a Wanderer over the sky Mars is one of the few heavenly bodies on which we see a solid surface like the earth. Its solidity is shown by the substantial permanency of its configurations. But Mars has very little atmosphere to retain the solar heat,

And its reflected light indicates that its suiface may be covered with volcanic ash which again has very little power to retain heat. So after sunset the equatorial region even becomes very cold. Yet seasonal changes are observed on Mars During the planet's winter a white snow cap undoutedly forms on the north-pole. And in summer as the snow cap melts sub-polar regions change their appearance. Mais is much smaller than the Earth, its diameter being only a little more than half of the diameter of the Earth. The equatorial diameter of Mars is 6740 Km (4190 miles). The time of revolution of Mars is 686, 98 days. Mais has two satellites—Deimos and Phobos.

BRIHASPATI is the planet Jupiter "Fathers have decorated the heaven with constellations as a dark hoise is adorned with pearls They have made night dark and have let light in day Brihaspati cleaves the rock and has found the cattle (shines piercing through the clouds : x, 68, 11) Brihaspati is bright (1, 190, 1) like a meteor (ulkam . ×, 68, 4) Brihaspati, blue-backed, shines brightly golden juddy coloured light (5, 43, 12) which is actually the case with Jupiter Stars (rocana), are firm and immovable (sthirani) in the heaven (8, 14, 9). But the seven vipras (the five planets then known, sun and the moon) are flying in the fixed courses, the five Adhvaryus (planets) well protected towards the east regularly—the immortal Ukshas (planets) to the satisfaction of heavenly luminaries (3, 7, 7) As Jupiter is the largest planet, he was called the leader of the luminaties (devaguru) Egyptians called Jupiter Upesh = resplendent star The Babylonians associated it with Jupiter requires 11 86 years to complete a sideral revolution. The planet's surface not infrequently displays In particular the two belts north and south striking colours of equator are sometimes very red whereas at other times, they may be brown, neutral grey, even bluish One belt exhibits a periodic variation in such a manner that when it attains a maximum of redness, the other is bluish. And between the periods of extreme coloration both belts are moderately red of changes was found to take place in 12.08 years which is in close agreement with the planet's revolution Of all planetary markings none has received so much attention as Jupiter's great red spot Jupiter has 9 satellites (14. E B Jupiter). Jupiter

has nearly eleven times the Earth's diameter and 317 times its weight. It has more than double the weight of all the other eight planets combined. As Jupiter is in the middle of the planets, fifth out of nine, it must have evolved out of the central part of cigar-shaped gaseous filament which ejected out by gravitational pull when a bigger star passed by our sun. The central part was the rithest in matter. That is the reason why Jupiter is so large and heavy And at the ends of the cigar-shaped filement Mercury and Pluto are smallest. The temperature of Jupiter would be about 270 below zero. This will reduce our atmospheric gases into liquid air of Juniter are clouds of carbon dioxide Juniter consists of 44 000 miles solid central core surrounded by a 16000 miles thick layer of ammonia ice and 600 miles deep cloud laden atmosphere Juniter's mysterious great red spot is an impression of whirling gaseous elements escaping from the depth of Jupiter a dense atmosphere and souring above its cloud surface from an 30 000 miles long and 7000 miles broad dent by a striking comet which penetrated into its deeper layer VENA (Vanant Yast Usanas, Sukra) is the planet Venus With the wings of gold the messenger of Varuna the bird (Vena) flies to the region of Yama (Perseus × 123 6). The Vena is a swift mover (x, 1:8 8) and wanders in high place (x 128 7) The Venus shines with a dazzling lustre Its greatest brightness is attained at about 33 days on either side of inferior conjunction its elongation from the sun then being 39° and its phase to that of a 5 days old moon When seen in the western sky in the evenings at its eastern elongation it was called by the Greeks Hesperus and when visible in the mom ing in its western elongation it was called Phosphorus Venus completes its revolution in 225 days The atmosphere of Venus is heavily cloud laden. If there were living beings in Venus and Jupiter they could not see the beautiful star spangled sky piercing through their surrounding atmospheres. Venus and Earth are of about the same size Oxygen which forms a large proportion of our atmosphere is very rare in Venus. Plant life is a regular oxygen factory Oxygen on the Venus has been combined with iron or other substances and there is no plant life in Venus Venus looks largest and brightest when

it is at its nearest, between us and the sun Then it looks like a new moon crescent. All the rest of the face it turns towards us in darkeness. When it is furthest from us, behind the sun, it is nearly six times distant and looks proportionally small But as the sunlight falls on the whole of the face of the Venus it turns towards us, it looks globular Vena with his golden pinions is friendly to amorous delights and to lovers (x, 123, 5) Venus was often associated in Semitic Mythology with Al-lat or Al-Ouzza the polyandrous and polygynous consort of Al-Azor, Athtar, Baby Ishtar, and Jupiter with Marduk Skt Van = to desire, to cherish, to win Swed. Vinn=the Roman Venus is the planet as well as the goddess of love Suparna (×, 86, 19, 1, 105, 11) is Mercury. Mercury (Mangala) is frequently dimmed or obscured by the haze and mists near horizon. But at a favourable elongation it can reach 12 magnitude brilliance. Its period of revolution in its orbit'is 88 days. Mercury has no satellite. It is about in weight of the Earth Sixteen Mercuries rolled into one wou ld barely make our Earth It has the size of the moon. Mer-cury presents the same face to the sun, being held by its gravitational grip, as the moon presents the same face to the Earth So the side perpetually baked by the fierce sun has lost its. water, atmosphere, and if there be any river it is of molten lead. The other side is severely cold as the surface consists of volcanic ash which is unable to store any heat. As it quickly moves round the sun, Suparna was called the bird of Vishnu (sun) and Mercury was called the messenger of gods When Mercury is between the Earth and the sun, the light of the sun falls only on the side away from us, we see only a dark ball across the bright solar disc When Mercury is in other positions the part we see illuminated may range from a thin crescent like the wing of a bird to almost a full circle when the planet is on the other side of the sun Greek Hermes, the messenger of the gods, and Baby Nebo, the scribe of the gods, represented Mercury. Sakuna (9, 86, 11) with his golden wings, the envoy of of Varuna, hastens to the region of Yama (Perseus . × 123, 6) Sakuna (now called Sani) is Saturn. According to the Hindus Yama is the guardian of Sani and Sakuna (vulture) is manspicious. To the naked eye

Saturn when in opposition always appears as a star brighter than the first magnitude, but in consequence of the changing phases of its rings it varies greatly in brightness. The planet shines with a warm yellowish light like that of Arcturus. The Saturn is the sixth major planet in order of distance from the sun. Its mean distance from the sun is 885 900 00 miles and and its periodic time is 29½ years. The volume of Saturn is about 750 times that of the Earth, but the periodic times of its satellites indicate that it exceeds the Earth, only about 95 times in mass. Its mean density therefore is but O 13 of that of the earth or over o 7 times that of water The most remar kable feature of Saturn is the magnificent system of rings by which it is surrounded. The plane of the ring is inclined about 27° to the planets orbit and about 28° to the celiptic and keeps parallel to itself throughout the planets revolution There are accordingly two opposite portions of the orbit near longitudes 172° and 352° where Saturn is the Leo and Aquarius respectively at which the ring can be presented edgewise to the Earth and when this event happens (as it does either once or three times during each passage of the ring plane across the Earth's orbit) the ring, owing to its thinness disappears from view even from powerful telescopes. At intermediate positions when flature in Tarrus, Germin and Sagittarius, it appears opened out at an angle of 27 it shines almost with treble brilliance Saturn has 9 satellites and is surrounded by three flat cirular rings which form a kind of collar round its middle. This ring has been formed out of tmy frag ments of a larga satellite that came too near to the danger zone of gravitational pull of Saturn and was torn into pieces. Babylonians coloured seven planets as follows (1) the sungolden; (2) the moon—silver (3) Mercury—blue (4) Venus—yellow; Mars—red; (7) Jupiter—orange; (7) Saturn—black which is of Kali yuga. Babylonians decorated their tamples in seven colours after the seven planets ULKA (4, 4) is the Meteor or shooting star Between Mars and Jupiter there is an abnormally wide gap but there are thousands of asteroids which are but fragments of a planet which one filled the gap but coming within the danger zone of Jupiter broke into pieces. However they are moving round the sun as their

parent planet did. Trails of comets coming within solar gravitational pull gets dislodged from their parental body and form meteoric stones. Occasionally the Earth passes through the zone of these fragments and some of the meteors get entangled in the earth's gravitational pulls They are usually raised to a white heat by the friction of air and they are vaporized naturally many miles above ground and we have a fine meteoric display—a shower of shooting stars Sometimes they may be too big to be completely vaporized and they fall into the earth many of which in the past have been made The meteorite owing to the resistance to the air becomes incandescent and is then seen as a scintillating ball of fire, sometimes with an apparent diameter greater than that of the moon, leaving behind it a trail of luminous matter a consequence partly of shattering and of explosion due to the rise of temperature by the friction generated by its rapid movements in the air, a short time after the disappearance of the fireball loud detonations like thunder are heard meteorite is usually an irregular roughly pointed conical stone with a thin dull black crust and curious pittings containing varying amounts of metallic iron and nickel. The meteorite stone was worshipped in ancient times as it is now kept as a valuable possession in Museums The image of Diana was a meteorite stone which fell down from Jupiter The Kaaba of Mecca is another The Phoenicians worshipped Astarte and other gods in the shape of conical meteorite stones (baetyla) Semitic Allat or Illah was represented by a square or triangular stone Thus possibly linga stone as the image of Baal (Bholanath) originated In these temple priestesses (qedeshim) and priests (qedeshoth) played gods and goddesses and worshipped gods in the form of sexual unions, as they were fertility gods Maidens sacrificed at the shrines of Astarte and Baal their virginity in the belief that they thus propitiated the goddess and god of love and fertility (14 E B Phoenicia) Baal whose worship was characterized by gross sensuality and licentiousness was represented by symbolic plllars with rounded tops (linga)

Tvashtri is Cassiopeia Tvashtri is skilful handed and a deft worker (3, 54, 12). Tvashtri is the best artisan, he sharpens his iron axe (parasum svāyasam) to fashion bowls to

hold Amrita (x, 58, 9) Tvashtri means carpenter. 1/ Taksh -to cut, hew, fashion Skt Takaha, takahaka-carpenter takahan = Gk. tekton = carpenter toka = offspring tokay = a new born child. Gk, tik tein = to produce tek non = child tech ne skill tekton = carpenter Lat. talus = a die textere=to weave Lith tik ras=fit; tikti=to suit Thus Tvashtri being originally divine carpenter he began to fashion everything A carpenter was the most important and useful member before smithy was known. He fashioned chariots and bows on which the success of war depended Thus he fashioned the thunderbolt of Indra (5 31, 4), develops the germ in the womb and is the shaper of all forms (8 91 8) Cassioneia holding in hands instruments in the attitude of a carpenter is seated on a chair formed by its five principal stars.

Varaha is Lupus Indra transfixed Varaha (boar 1.617) Indra killed the ravenous boar (8,66 10) If one looks at the constellation figures (14 E B Consellation) he will find that Centaurus (Indra) is piercing the heart of the prostrate Lupus (the boar) and at the left of the Lupus is Scorpio (Visvarupa) and at the right of Centaurus is the monsterous water-snake Hydra (Vritra) The killing of Erymanthian boar is ascribed

to Herakles in Hellenic myths.

Apah (Kassite Apau, Gothic Ahva Av Avam) is zodiacal constellation Aquarius in the shape of a person standing pouring out from an amphora (kumbha) a stream of water which flowes into the mouth of the Southern Fish (Piscis Australia) The delightful goddess (devs) advances in the path of lumina ries (devanam 7 47 3) In whom Soma (the moon) is delighted, as a youth is charmed with a pleasant (kalyanibhir) buxom maiden, so thou approach Apo and purify her with fragrant herbs (× 30 5) As a maiden yields to the vouth that comes to her with an ardent love in tryst, so all the Advaryus (planets) are in mutual rapport with the Devi (x 80 6) The sun (surya) enters into Apo (1 23 17 present on Jan 20) Water (Apo) that flows from heaven, that flows in dug out canals (Lhanitrink) flowing from nature -bright, purifying and speeding towards the ocean let that Apo protect me (7 42 2). Apah is Av Apo and its presiding deity is "Ardvi Sura Anshita in the shape of a maid, fair of

MYTHS / 265

body, most strong, tall-formed, high-girded, wearing shoes up to the ankle, radiant, who made a part of the waters stand 'still and part of water flow, and boin in stars (Aban Yast 78, 85) The goddess of springs and streams and of all fertility—Ardvisura Analita, Analtis—is endowed with the form of Baby. Ishtar and Belit. She is depicted as a beautiful and strong woman with the prominent breasts, a golden crown of stais and a golden raiment. She is worshipped as the goddess of generation and all sexual life (Herod 1, 131, where Mithra and Anaitis are interchanged) and religious prostitution is transferred to her service (Strabo 11, 532) In the temple of Anahita (Anaites = undefiled) in Bactria stood a famous cult image of her wearing a golden crown with eight rays and a hundred stars and clad in the fur of 30 beavers of the sheen of sliver and gold Anaitis with a thousand arms represented Oxus with a thousand canals (Tarn Greeks in Bactria) As there are no stars more bulliant than of third magnitutde in Aquarius, the neighbouring constellation Aquila, with its brilliant star Altair took the place of Aquaius for observa-tional purposes So it is said that Garura (Aquila) stole the kumbha (Aquarius) of ambrosia (amiita) In Odin in the form of eagle devoured the honey and stole the long jar from which honey fell on the Himmelsberg which produced poetic inspiration Babylonian Zu stole Tablets of Destiny

Trita is Bootes. Trita lives in the height of heaven (5, 9, 5) Trita Aptyā urged on by Indra slew the foe (Visvarupa = Scorpio), seven rayed and three-headed, son of Tvashtra (5, 8, 8) Scorpio is situated between Centaurus and Bootes. In Avesta we find that Thraetaona (Trita), the hair (viso-puthra of Athway (Apta) clan, overcame Azi Dazaka (ahi dahaka), Thrita (another name of Thraetaona) became the first healer, as it was thought that all diseases were due to poisoning by the biting of the snake (Farg. 20) Trito is also known as Aptya (of water 5, 41, 9-10=Gk Triton). Greek Triton is a merman, as a human down to the waist but with the tail of a fish. He used to blow a trumpet of twisted conch shell to soothe the restless waves of the sea. Bootes means ox-driver from Gk boyz = ox. It represents a man holding a crook and driving the bear (ox). Its brightest star is Arcturus

(Sviling the presiding deity of Viyu) Another interesting star is Delta Bootes, a beautiful double star composed of a yellow star of magnitude 8 and a blue star of 6.7 Trita is Tent. Thridi, Gk. Triton, Egyp Ueret Ekata is Gk Hecata. Gandharra is the Bainbow Gk Iris. Gandharra is the

measurer of airs mid-space (× 135 5 8kt madhya-Lat medius-Gk methos-Goth, midja-Busa mejdu-O H. Ger mitti) Apsaras (Skt. ap ambu, Goth. ahva, Lat aqua — water. Skt. abhra, urmi (waves) Lat imber Gk. ombros = cloud) the lady sweetly smiling suports her lover (Gandharva) in sublimest heaven. Erect to high heaven the Gandharva has been mounted, pointing at us his many coloured weapons (rambows); clad in beautiful raiment, pretty to look at for he as light produces pleasing forms (x 123, 7). This multicoloured weepon mounting in heaven is nothing but the Rainbow as an effect of the sun or moon shines reflecting on falling drizzles The rainbow also may be observed when the sunshine falls on the spray of a waterfall. The Aparas are the rain or waterdrops (/ Drap-to run flow Gk, droposrunning drapites - fugitive Eng tramp Ger tropfen. Skt. dropsa -drop Av Drväspa-water symph) on which the light falling causes rainbows. V Stri-to spread out Skt vi stara-spread. Gk. stor namai-I spread out Lat ster mer-to scatter; Lat. stramen - Lith straja - As streaw - Skt trina - straw Sk tara -Gk ester=Lat stella-Ger stern=star The rainbow consists of pure colours-red, orange, yellow green blue violet and indigo-in the order of their wave lengths, the simlight broken into their component parts by the spectroscopic effect of a multitude of drops of water Later the Apsaras (Gk. Aphrodite = abhra-diti = the light of the sky) became water nymphs -mermaids. The conception of the mermaid or siren perhaps originated from Dugony (Sirenia) mainimals that have adopted aquatic life and known as sea-cow Dugong holds its young to its breasts and suckles it. It is about 12 feet in length and weighs about 800 kilos. The Sakas conceived their original mother—Hindu Namu-as a charming maiden in the upper part above the waist, and lower part as a coil of a serpent. The Hindu Nagun, upper part as an ever-youthful seductive buxom maid and the lower part in the coils of twin serpents,

MYTHS 267-

lives in fountains and springs—fond of songs, dances and amorous sports The Syrians conceived Atargartis, their goddess of love and fertility in the form of a pretty maiden in the upper part above waist and lower part in the form of fish RUDRA is Sagittarus. Rudra is the boar of the sky, reddish, gleaming (1, 114, 5) Rudra shines like gold (1, 43, 5) Rudra carries bow and arrows (dhanavanhan) and wears a variegated necklace (niksham visvarupam . 2, 33, 10) Rudra's bow is firm and strong with swiftly flying shafts (7, 49 1) May that thunderbolt of thine, which sent from heaven traverses the earth, pass us by (7, 46, 3) Vākdevi (Virgo) fights for people and stretches the bow of Rudra (X 125, 6) Rudra, O Tawny bull, slay us not May we jubilantly debate with our heroes in the assembly (2, 33, 15) Sagittarius is in the shape of a centaur drawing a bow. The upper part is that of a man. drawing a bow (Sagitta), the lower part that of a winged bull or horse On account of its southern declination it is not visible in upper Europe A very bright arm of the Milky Way passes through it, another part of the constellation is occupied by remarkable dark patches of Nebulae It contains the Trifed nebula and the Omega, both fine examples of bright diffuse nebulae Cepheid variables and globular clusters seem to congregate in this region, and it is probable that the extension of the galactic stellar system is greatest in this direction In Baby myths Nergal the archer was the god of war and pestilence. He was called the furious one (Skt rudra) ${f It}$ is the Pelasgian Artemis The arrows of Artemis not only brought death but also health and other blessings Sagittarius was the war god of the Assyrians. (Asura), and the all knowing lord (Ahura Mazda = Asura Medasa) of the Zoroastrians Rudra was the war god Adad (Adya and Admatha, names of Rudra) of Amurru, Shuqamuna (Skt Sukama - abundantly granting desires) of the Kassites; Sutekh of the Khatti, Tarku of the Phrygians, and Thor of the Teutons Hittite Sutekh, Egyp. Set appear mounted on a bull wearing fringed and belted tunic with short sleeves, a conical helmet and upturned shoes, in one hand he grasps the lightning symbol—the flashing trident—and in the other a triangular bow resting on his right shoulder, an antelope

prances besides him. TRYAMBAKA is Ophiuchus (-Serpen tarius Asclepios) Tryambakam (three-faced three mothered ambha, ambika) = we adore who is sweet smelling (sugardhim) and augmenter (pushti vardanam 7 59, 12) With humility adore the mighty Rudre the ruler of men; followed by the speedy ones he comes from heaven lord of himself, auspicious and (Swa) healing (X 22, 9) Of all born thou art the greatest O Rudra, mightiest of the mighty O thunder wielder (vaira-vaho lightning fork=trident) transport us from troubles to welfare (sparts 2, 88 3) Ophruchus (Gk ophis = Vedio Ahi = serpent +echein = holder = Skt. Bhusingsdhara) represents a man holding a serpent like Segittarius (which it adjoins) it includes a region of the sky rich in globu lar clusters and diffuse nebulæ It is Gk. Asklepios (Lat Aesculapius) the god of healing whom Homer calls blamcless physician The chief seat of the worship of Aesculanius was Epidaurus where he had a temple surrounded with an extensive grove where serpents were kept and fed with honeved cakes Berpents were sacred to him for the god held serpents in his bands, and serpents were coiled round his club-like stuffthunder rod Consequently serpents became a symbol of renovation and were believed to have the power of discovering healing herbs Hygeis the daughter of Asklepios, fed a snake with milk and made the prognous of patients who came to the temple to consult the oracles from the manner in which the snake fed on it. There were a large number of pretty youthful temple slaves (daughters of the god) whose duty it was to tempt the patients to sexual congress and if the man responded to the sexual appeal quickly with strong erection and copulated for a long while and felt gratified the prognosis was involvable but if he remained apathetic with placid penus the prognosis was bad Rudra is the healer of all sickness (7 64 2) To Rudra the greatest poet (gatha patim) the highest intellectual (imedia patim asina medasa Ahura Mazda /Madha-to mind to understand. Skt. matimind, medha = brain Av madh - to treat medically, marda knower Lat mens mind Lith minitis intelligence Gk. mentis wadom, menas Skt. manas mind Russ pa muste-memory) the most successful physician (Jallisabheshajam), we pray for joy, health and strength (1, 23, 4) Therefore self-luminious Rudra is Siva (auspicious: X, 92, 9), Isāna— (lord) of this world (isānad asya bhuvanasya. 2, 33, 9) and an Asura (5, 42, 11) Su (excellent) asti (being existence). Svastika—Crux Ansata—The Tau cross with a handle = the symbol of blessing , Su = to generate, Skt = son Su therefore means excellent VAs=to breathe, asu = vital breath · asti = being, astitya = existence. Skt. Gk esmi (Skt asmi) – I am Lat (a) s-um = I am, Svasti = welfare Skt Sv-asti = Gk au-esto, data vasunam = Gk doteles eaon . Skt. ratam astu=Gk ratum esto Rudra thou ait the great Asula (lord) of the heaven (rudio asuro maho divas 2, 1, 6) Rudra Triamyaka is a roaier-thunderei. The serpent in his hands (for which he is called in the Hindu Puranas Bhujanga-dhara) has been regarded by many ancients as thunderbolt Ra=to bellow, roar Skt ras=to yell, rud=to ery, to warl, rudra-howler Lat la trare=to bark, la-mentum = to lament Ger rohren Lith reju = I scold, Russ. la-iate to scold Khatti war god Teshub (Kesaba) with his thunder club was possibly Ophiuchus Kesaba is generally the name of Hercules (Krishna) in the Pulanas Kesaba means one with long hair But Rudra is also a Kapardin whose hair is knotted on the top (1, 114, 1) Dhanvantari (holder of Dhanus - Sagitta - Sagittarius) was a great healer and expounder of Hindu Medical Science Egy Bes, healer and destroyer of serpents by strangling VISVAKARMAN is Hercules Visvakarman (the All maker) is the architect of the universe (X, 81, 2) who producing the earth and the heaven welded them together (X, 813) What was the wood, and what was the tree from which they have cut out heaven and earth (X, 31, 7)? What was the stand on which he rested, which was it and how (supported) from whence Visvakarman (All-maker), the all-seeing created the earth and spread out the sky by his might (X, 21, 2), 2 Years remaining great in mind. the sky by his might (X, 81, 2)? Visvakarman is great in mind and power, maker (dhata), disposer (vidhātā) and the higher observer (X, 82, 2) He is our father, creater (janita) (generator), provider and knower of all races (X, 82, 3). Hercules is an ancient northern constellation, representing a giant upon his left knee, right knee bent, the foot placed) upon

the head of Draco (Purinic Kaliya Naga) a club in his uplifted left hand and something in his right (the Greeks called it olive branch the Hindus a flute) The consthe contains one star of second magnitude nine of the third and twelve of the fourth. It contains a famous globular star-cluster (Messer 13) which is the first example in the northern hemisphere. The sun's motion through space is directed towards a point in this constellation Viswakarman is Yadava Krishna and Dorian Herskles. Both the Yadava (Yutea) and Dorians were Alpines. Yadava Vishnu and Dorian Apollo represent the sun. Krishna and Herakles represent the constellation Hercules. Herakles (Hercules) was pursued by Hera with her hatred after his birth. She sent serpents to kill him. But he strangled them to death. Herakles killed Hydra (Vritra) in the waters of Lerna lake; Herakles killed Erymanthian boar which heroic acts are ascribed to Indra in Vedic myths (8, 66 10) Putana conspired to kill Krishna since his birth but she was killed Krishna vanqished Kaliya Naga in Kalindi Draco is under the feet of Hercules, and there is Serpens near the left arm of Heroules Before 2000 BC Draco (Manasi) was prominent with Thumban (Drubba) as the polar star but due to the precession of the polar ecliptic Draco has lost its domination and Hercules has taken its place on the right side of Hercules. Milky Way has bifurcated here Krishna is said to have beaten Kaliya Nag in Kalindi, and became Govid, or Gobinda—the finder of the cow Cows are the Ursa Major and Ursa Minor which though now called Bears might as well as be taken as bovine animals. Hercules became Khatti Teshub (Skt Kesaba) their war god with his nighty clab Among the Hindus like the Khatti Teshub and Indra mytha, Indra and Krishna legends have been mixed up Teshup with mace on his shoulder was also a war god of the Mitannis Wife of Teshub was Shanshkash (Skt Saukhyadicausing welfare) Shaushika of Nineveh.

Parjanya is Rain Parjanya is thine udder 0 cow (vasi-Aditi) the lightnings are thy teats 0 cow (Aditi Av ×, 1 7) Parjanya is father earth (blumi Av bumin) is mother (Av 12, 1, 13) Like a charioteer whipping his horses he rushes the rain messenger for wars. Far off resound the roars of

MYTHS 271

lions when Parlanya fills the sky with rain clouds (5, 83, 3) Wind (vātā) blows furiously. Down come the lightning flashes (vidyuta) Plants shoot up as showers fall down Food grows abundantly for all creatures as Parlanya inseminates Prithivi (Parlanyah Prithivin retasāvati 5, 83, 4 Reta — semen (Parjanyah Prithivin retasāvati 5, 83, 4 · Reta-semen $\sqrt{R_1}$ =to flow Skt riti=flow, custom, retodhas=impregnating, retaja=boin of ones own semen beloved son Lat ri-uus=flow, liqu-ere=to be liquid) Thunder and roar, cause impregnation (garbham ādhā 5, 83, 7) Parjanya like Dyaus impregnates the earth Rain is his semen Parjyana has also lightning and thunder like Dyaus Parjyanya and Dyaus are amalgamated in their characteristics Parjanya is Lith Perknuas, Slav Perun, Teut Fjorgynn, Icel Fiorgyn, and Goth Fairguni Perkunas is the god of thunder, lightning and rains The Letts still sacrifice usually lambs, and sometimes bulls to Perkunas The White Russians describe Perun as a tall old man with large shoulders black eves and hair but

and rains. The Letts still sacrifice usually lambs, and sometimes bulls to Perkunas. The White Russians describe Perun as a tall old man with large shoulders, black eyes and hair, but with golden beard, having bows in his hands whose arrows are the lightning flashes. The movement of his celestial car makes the thundering noise in the heaven (thunder). Fjorgynn is also god of lightning, thunder and storms. Par=to produce. Skt. Parjanya=producer of rain, purodāsa=share, Gk. pareim, porsynein, Lat. parene—to prepare.

Svarga is Heaven. Thy sons shall make offerings to gods, and thou shalt rejoice in heaven (svarga ×, 95, 18, \$\sqrt{\sqrt{svar}}\$ svarga—to shine; heaven. Skt. svarga=heaven: sur-ya—the sun. Gk. seir-ios=Sirius=Dog-star; sel-as=splendour, Selene—moon. Lat. ser-enus=bright, sol=sun. Russ. Svarog=heaven.) Fathers (Pitribhi) go to the region of Yama in the highest sky (parame vyoman) and get a dwelling and a bright body according to their acts. (x, 14, 8). The burnt and the unburnt (dead bodies) carouse in the midst of heaven with pretty damsels (svadhyā.) Give them O Lord their dwellings and their body shapes according to their inclinations. (x, 15, 15). Send her (the wife burnt on the pyre with her dead husband becomes a Svadhā, also to the father so that he can move with the Svadhā, and wearing new life, let him increase his offspring, let him produce new bodies, O All-knower. (Jātavedha=wise from birth: x, 16, 5). Their penis is not burnt by Jātavedah;

in the heavenly world (svarge loke) they enjoy many women. (vahu strainamesham Av 4 84, 2) The bulb bearing lotus (kumuda) grows in roots stem and flowerbuds Let this water offering reach thee in the heaven like honey-a complete lotus These Ghee honey, alcoholic drink (suro-daka) milk, butter milk reach thee like a complete lotus pond (Av 4 34 5) The Asvattha (Figure religiosa) is the abode (sandana) of the gods in the third heaven (Av 5 4 8) On a tree with fine leaves (vrikshe supalise) Yama drinks with gods (Osiris is. found on a celestial tree the lunar markings) There our patriarch (Vispati) look after our ancient fathers (parana pita - ancestors × 135 1) Lotus (Nelumbo nucifera Skt. Kamala, padma) is sacred to the Hindus. It was sacred to the havotians It was to them the emblem of fertility and they used to decorate the heads of Isis and Osiris with the flowers. of lotus. The seeds of the lotus have been used as food in Egypt from remote antiquity The Hindus offer lotus seeds in their Yainas and use it as food in Kashmir whence even the root-bulb and the stem are cut into prices and used in meat The seeds are like acorns in size and shape and their taste is more delicate than that of almonds. They can be reasted and powdered and eaten with great relish. The seed was called the Bean of Pythagoras and Luen hos of the Chinese. Zizyphus lotus is the North African plum tree like the Indian Zizyphus Jujuba The fruit of Zyzyphus lotus like the Zyzyphus Jujuba (black plums) can be dried powdered and made intobread A fermented drink was also made from the plums (Zyzy plus lotus) in Carthage These people were called by the Greeks loto-phagi-the lotus eaters For this reason lotus was called a tree whose fruit was the stable food and drink of the people. Where there is eternal light and heaven (svara) is in that ambrosial region place me there O Pavamana (Pavamana regulated the flow of ambrosia (amrita) of which the moon was supposed to be composed for which it was called Sudaneu, and which was the food of the gods and Pitris 9 118, 7) Where Vaivasvata (Yama son of Vivasvan) is the king in the highest heaven, where flows constantly ambrosial liquid place me there (9 13 8). Where one can wonder about as he desires in the third sphere of highest heaven where the light is ambrosial

(moon beams), place me there (9, 13, 9). Where cravings (Kāma) are instantaneously gratified, where there are desired foods and drinks, where Svadhas (damsels) give voluptuous gratifications, place me there (9, 13, 10) Where there are pleasures and merriments, joys and felicities, where delightful heart's desires are fulfilled, place me there (9, 13, 11) Where the good-hearted and the nobles revel, being freed from disease (even hereditary: Janitra. Av 6, 120, 2), and not lame of their limbs, where fathers see their sons (Av 6, 120, 3). Stars are the lights of virtuous men who go to heaven (Ts 5, 4, 1) and seven Rishis have been raised to the stars (Saptarshi = Ursa Major. Ts 1,11,1). Teut heaven was Odin's place-Walhalla, an enormous hall, ornamented with golden escutcheons and lances to which 540 doors led, each so wide that 800 horses could march through them ableast. Here came all the souls of warriors (Einheriar) who daily rode with the gods on the great plains of Ida and battled with one another, in order to continue after death, the heroic deeds they enjoyed in during life, and every evening returned to Walhalla where seated in a circle they drank rich mead from golden goblets presented to them by the beauteous Walkyren, fed upon the flesh of bear which became whole though a number of steaks cut of its flesh and upon the apples of Iduna which preserved them in eternal youth, and they reveled in sexual delights with the ever youthful Walkyran formed the bridge joining earth to heaven by means of which gods descended the earth and the souls of man mounted to Walhalla Heaven was regarded as canopy, supported by a pole or tree, from which parasol (satra) became a symbol of sovereignty Achemenides and the Hindus KA is only praised once (x, 121) In Egy mythology Ka is the body's immaterial double (Jivatman), that hovered over the dead bodies in their funeral chambers. He was in the beginning a golden egg (Hiranyagarva · the universe conceived as an egg=Brahmanda). the creator of all beings, the only lord He holds the earth and the heaven together "Ka, the god, we shall worship with oblation (x, 121, 1 Kasman devaya havishā videma) Giver of respiration: (= life 'atma-da = giver of breath \(\sqrt{Ana} = \text{to breathe.} \) Skt āna = breath, an-ila = breeze Pra-āna = prāna = vital breath, anala-that scuffs-fire. Lat. ani-mus-spirit, animation Goth.

nz-anen = to breathe out Gk an-emos = wind Gk atmos = air ; asthma - souffle, atmen - Ger atem - Skt atman - exhalation) giver of strength, who is the immortal shadow (chays amritam. /Sku-to cover to shade. Skt. Skand to leap upon to cover Chave that which covers the name of Siva shadow; chave Gk. skin-shade Gk. sky ne = a shelter Eng sky = that which covers - heaven) of the dead (disembodied spirits) Ka the god we shall worship with oblations (x 121, 2) Ka is the fatherni law of Pristhi, the favounte wife of Indra and Ka is the same as Prajāpati (AB 8 22) Ka is Prilippati (Ts. 1 7 6 Ms 3, 19, 5) Ka is Prajipati, Ka is happiness (Kaus Br 5 4) Prajipati is Orion But Ka is a vague deity There is no definite source of its origin or mythological development Skt. Kaya is pertaining to Ka therefore body habitation Kayastha dwelling within the body—the Itman Ka like Om (Amen, Am or OM) is likely to be Egyptian imports, where they are well established from great antiquity Ka is the body's immaterial double (mrith chayamritam - the immortal shadow of the dead - disembodied spirits - Skt Jivaima) that hover the dead bodies in their funeral chambers. Atman, (Ger atam, OH Ger atum, Goth ahma Gk. aitmen - breath. Gk. atmos - vapour) was regarded as then as vital breath and finally the soul a double (Egypt. Atumu) imperiabable and eternal one yet in every being the first cause and principle of existence (paramatman) Amen was the great Egyp solar detty of Thebes. After him the Christian Churches still say amen after prayers, meaning Be at so They borrowed it from the Hebrews who had got it from Egypt, Am or OM also represents the soul of Heh-eternity and mmortality Om is not found in By But three Aksharas (letters A U M) are mentioned in (Av 13 8 6) According to Att Br (5 32 7 18), Prajapati created the earth the atmosphere and the sky Agni was born from the earth, Vayu from the atmosphere, Aditya from the sky Rigveda was born from Agni Yajuryeda from Vayu and Samaveda from Aditya; from them three pure (sounds) were born—bhuh from the Rigyeds, bhupah from the Yajurveda svar from the Samaveda; from them three sounds were born-the a, u, and m; them he brought together that made on therefore with om does he sav

MYTHS 275

Pranava; om is the world of heaven, om is he that yonder gives heat, om is the response to a Rik, be it so (tatheti) to a gatha, om is divine, be it so human; verily thus with what is divine and what is human he frees him from evil and from sin (Ait Br 7, 18) By om consent is understood, when one consents to a thing he utters om, for this is the cause of prosperity, when we have a desire for a thing, on its receipt we say om, meaning thereby that we have got it (Chān Up 1. So the development of Biahminical Om and Bib Amen are similar And Bib Amen, signifying affirmation, so be it, so it is or so it will be (1 King 1, 36, Jer 11.4) has been traced to the Egyp god Amen or Amon of Thebes In Greece Ker (a female deity) was man's shadow, especially of the dead.

Ka was carried in Argo boat by ferryman of the dead, Horus (Canopus - Agastya in Argo) Dana is charity. Charity ensures one to success in life and immortality (x, 17, 3) Generosity to the indigent (akincana) and tramps (daridra) is a social and religious obligation \sqrt{Aki} —to be in want of Skt akincana—Gk. akne—Lat egere—indigent \sqrt{Dru} to run Skt druta—quickly, daridra—tramp Gk. drap-etes—fugitive Ger trappen—to tread, treppe a flight of steps Gods have not ordained hunger to be (the cause of our) death which is even the lot of the well-fed. The riches of the giver are not wasted, for a non-giver finds no contentment (X, 117, 1). When a needy man comes in a miserable flight begging for food to eat, the man who has got food in store hardens his heart against him, but finds no contentment (x, 117, 2) He is no friend who will offer nothing to a friend who comes imploring food Let him depart. This is no place for him to stay. Rather let him go to a generous giver though he may be a stranger (×, 117, 4). Let the rich give to the poor implorer, having his eyes on the longer pathway (that is thinking about the future). For wealth now comes to one then to another like the wheels (up and down) of a chariot (x, 117, 5) Inana (x, 71 = nama = Goth namo=Lat nomen-Gk. onoma-Fr nom-Ger name -Per nam) is Gk gnotos (gnostics) and Lat gnotus. Sradhā (×, 151) is preservation, confidence and piety √Sar=to preserve Skt sar-va=whole Av. har=to preserve Gk olos= whole. Lat. salus=health, salutare=to wish health, salute.

Staddhā is the preservation of the remembrance (smriti) of the Fathers. \(\sqrt{Smri=to} \) remember Skt. Smriti—remembrance List memoria—remembrance. Gk. martys—a witness. Armati (piety) is Armati. Skt sradda-dhāmas—Lat credidius, sraddada-dhāmas—Lat credidius, sraddadadhan—Lat credidius, sraddavelopment of \(\frac{hrd}{srd} = \text{Gk} \), kardia—Lat, cardiacus—Goth, cride. Av Vohu Mano—Vasu manas (Gk. logos Theos)—Good Thought; Asha Vahists—Asā Vasishtha—Excellent Hope (Eshā Vasistha B Br 2, 4 42) Khshers Variya—Kehatriya Virya—Martial Power Spenta Armati—Svants (Su-anta—whose end is good—auspicious) Amrita—Blessed Liquor Harvatat—Sarvatati (x 100 1)—abundance in everything Amerita—Amritativa—Immortatity Avastan—Skt arthajna—wisdom, Kritatu—Skt kritin—virtue Ristant—Skt Riju—justice

AHI (Av Azhi Gk. Echis, Echi dna) is possibly Serpens and Draco both combined. Ahi is shining for Maruts are called ahi bhanavah = shining like Ahi Serpens is an ancions northern constellation, intimately connected with but not treated as a part of Ophiuchus. Alpha Serpens is Unukalhai. /Agh-to choke to strangle Skt amhas-pen; shi-snake, agha-am, am Gk agk-ein-to strangle ; ak-os-angush. Lat. ang-ere to choke angina quinsy anxious distressed. Av Azhi Dahaka is biting snake. In Armenian history, the Manda ruler Astvages (Ishtuvegu - Skt. Ishta Bhaga 584-550 B C of Ecbatana) was called Ashdahak - Azh; Dahaka (Zohak) Assyr Sargon in 715 B O mentions an ancestor of Astyagos as Dankku, governor of Man (8kt. Manu) was deported to Hamah in Syria. Agbatan was called 2 years later as bit (place of) Diakku. After the Manda tribe Media was named. In Puranas it was called Uttara Madra. In the Punjab Manda (Marunda) settlement was called Madra which has played an important part in Indian history It is likely that Ahi (Gerpens) was their tutelary god. Drace (Dragon) is a prominent north polar constellation under the feet of Hercules. Before 2000 B C Thuban on its tail was the Polar star According to the Dorian (Alpines) legend Herakles (Ion Her cules) killed the Dragon guarding the Hosperian fruit Hera transferred the Dragon (Draco) to heaven as a reward for its services According to Hindu legends Krishns, the Yutean

'MYTHS 277

Alpine, subdued 'Kālıya Nāg'on the Kālındi (Mılky Way) About 2000 B C Draco lost its pre-eminence, containing the polar star Thuban, by the precession of equinoxes The Chinese have been worshiping Dragon from great antiquity Buto, the Greek name for the Egy Uto, the cobra goddess, sometimes figured in human form (Hindu Manasa) and commonly twined round a papyrus stem, was a representation of Draco. Like wise the fire-spitting serpent that decorated the crown of the Pharaohs Our Naga Panchami festival takes place when Draco appears on the the meridian in the month of July, Bib Brazen Serpent (Num 21, 6) represented it as well Gk snake Poseidon, of sea and springs, was an earthquake god. serpent monster Typhon caused earthquakes According the Hindus the earth rests on the head of Vasuki snake and when it shakes its hood the earthquake is caused Ophites identified the serpent with Sophia (wisdom); and as a sacramental rite they offered bread to a living serpent, and after the bread was touched by it, it was distributed among the worshippers Serpents were tended in the sanctuaries of Asklepios (an older Greek name for Ophiuchus), the famous god of healing (Dhanvantar) = Sagittarius). Among his symbol was a serpent coiled round a stuff and physicians were for long wont to place this at the head of their prescriptions Asklepios is also represented leaning on a staff while a huge serpent rear itself up behind him or a serpent comes to him from a well At Athens Asklepios Amynos had a sanctuary with altar and well, and among the votive offerings have been discovered models of snakes Hygiea, goddess of health, passed for his daughter and is commonly identified with the woman in Greek ait who feeds a serpent out of a saucer The smophoria, a sowing festival of immemorial antiquity performed by women, pigs were thrown to serpents kept in caves, sacred to Demeter Bacchae of Dionysus had snake accompaniments or symbolic ornaments. The symbol' of the Bacchic orgies was a consecrated serpent and the snakes were kept in the sacred cistae Athene had her sacred serpent (apparently to third century A D) at the Erechtheum which was fed monthly with honeyed cakes, when during the Persian War it left the food untouched, it was taken as a bad

omen. At Lehadesa in the shrine of Trophonios (to whom serpents were sacred) offerings of honeyed cakes were made to an oracular serpent. At Delphi a virgin superintended a similar oracle; and in the sacred grove of Apollo at Epirus a nude virgin attendant brought offerings and it was a sign of a plentiful year if they were accepted So also at Lanuvium, south of Rome in a grove near the temple of the Argive Hera, sacred maidens descended blind fold once a year with a barley cake and if the serpent took it it augured a good year. In Sweden even in the 16th century snakes were household gods and to hurt them was a deedly sin. Among the Old Prussians the snakes were invited to share an annual sacrificial meal and their refusal was a bad sign. The Lithuanians kept, fed and worshipped their house serpent (gyrate) till very recent times. Among the Romans every place had its genius in the form of a serpent Household snakes were fed in vast numbers Mahammed declared that the house-dwelling snakes were a kind of junn. There are many American tribes Apaches Novahos-who venerate the snakes Dangerous Cobra was protected by an article in the diplomatic treaty for the Bigut of Biafra Brassmen of Niger The Python Dahn-gbi of Dohomey is a god of wisdom and earthly bluss and benefactor of man. The children who touch or are touched by one of the temple snakes are sequestered for a year and learn the songs and dances of the cult Women who are touched become possessed by the god. In addition to his ministrant priestesses, the god has numerous wives who form a complete organization. Nother of these classes may marry and the latter are specially sought at the season when the crops begin to sprout These wives take part in licentious rites with the priests and male worshippers and the python is the reputed farther of the offs pring The long life of the serpent and its habit of changing the skin suggested possibly the ideas of immortality resurrec-tion wisdom and healing But its worship originated in the appearance in the sky of Draco and Ophinchus (Sorpentarius) and serpents were venerated as the earthly representatives of their heavenly prototypes Ophiuchus is Gk. Dionysus and Hindu Siva, known as Bhujangadhara, for he holds scrpents in his hands, he is also called Nilakantha for a make holder

he was supposed to have drunk snake poison and became immune to it. Mansāa is a wife of Siva Bacchantes (Menades) were the female representatives of Dionysus At the neolithic site of Khirokhitia (40000-3500 B C.) in Cyprus, human infants were sacrificed before serpent gods. Similar findings have been unearthed of the early bronze age at Vounous (2500—2100 Isiah (57 5): Enflaming yourselves with the idols BC) under every green tree, slaying the children in the valleys under the cliffs of the rocks (Mycenaean I L N Jan 27, 1941) The Baby dragon of chaos was represented by Tiamat (Taimāta · Av 5, 13) with the body of a woman Her husband Apsu terminating on the coils of two serpents was killed by Marduk (Marut - Apsu ut 8, 1-, 2; 9, 106, 3) St Waruna (Varuna) according to Irish traditions rules winds and storm of the ocean In Cornwall for a successful voyage in ancient times, human sacrifices were made, and maidens were often said to be chained to a rock to be devoured by a sea-serpent and were frequently delivered by aid of some hero who slew the monster. The maiden was offerred in sacrifice to the great serpent god or diagon of the sea and the priest of the seipent god who was about to kill her was in turn slain by the warrior The Keltic water dragon of Scotland has a similar The Syrian sea-goddess Atargatis was half a woman and half-fish The singing of the mermaid is a recollection of the death song of the priestesses of the sea god which they sang before killing the victim In Gk myths, Andromeda was chained to a rock on the sea shore as a sacrifice to be devoured by a sea monster, but was rescued by Perseus who married her, attracted by her beauty

ARANYANI (×, 146) is the abiding forest spirit. The cereal plants and healing herbs are mothers and goddesses (×, 97), A healing herb is a goddess born on goddess earth (Av 6, 136, 1), Vanaspati is a large tree, the lord of the forest (7, 37, 23), On some trees sylvan spirits or guardian deities dwell. Trees were planted around glaves in Greece; in Roman thought graves were associated with the manes of the pious. The chief sanctuary of the Old Prussians was a holy oak around which lived priest and a high priest known as god's mouth. The heads of sacrificed horses, were hung on branches of holy oaks. The

pollution of old Prussian sacred groves and springs by the instrus ion of Christians was atoned for by human victims. Sacred fires of caken wood burned before Lith. Perkuno and the Roman Jupiter Whether the ancients conceived any constellation of lunar dark patches or forest (grove) in the shape of a tree is hard to say In Walhalla Odin lived on Yggdrasil tree. Yama lives with gods on a tree (× 185 1) Osuris lives on the celestral tree. A bronze Fu Sang Tree Lamp with 10 lights in honour of the moon and brazier for fire-kindling in the time of emperor Yeo (2859 BC.) has been found (LL N Jan 11 1936) There is a bronze lamp-holder in the form of a tree with stars above the head and birds sitting on its branches their eyes beaming with light and lamps in the shape of goose (Cygnus), tortoise (Cancer), dragon (Draco) rat (Capricomus) dog (Canis Major), tiger (Leo) of the Chow dynasty (third century BC) A bird stooping down to threaten with its beak a climbing snake. In a relief Tang Dynasty mirror there is a lunar tree, a man rushing to pluck its leaves of immortality (I. L. N. March 7 1087) The Hindu heavenly grove is Nandana Kanana and the plant is Parijata. The Hindu sacred plants are Asvatha (Ficus religiosa), Dumvara (F glomerata), Vata (F Indica) Durva (Cynodon doctilon) Kusa grass (Eragrotis Cynosuroides) Tela (Sesamum Indicum) Tulass (Ocimum sanctum) Kadalı (Musa paradisiaca) Padma (lotus) Harıdra (Curcuma longa) Deva Daru (pines) Amra (Mangifers Indica) Amalaks (Philanthus emblics), Sams (Prosopis spicigers) Asoka (Saraca Indica) Vilva (Aegla marmalos with its trifoliate leaves) Narikela (Cocos nucifers), Nimba (Melia azardiracia) Manasa (Euphorbium pentandra) and Parijata (Nyctanthes arbor tristia). Apple (Khatti mahlas Lat malus Gk. melon) was sacred The lunar dark tracings (craters) were regarded by the Hindus as Parijata or Some, and the Parsis as Gackeran, identified with Haoma

Signa is Phallus. Phallic worship was possibly customary with the Caspinans particularly of their important tribe Kassite. Phallic gods (Sanadevah lingam and yoni) were not in the beginning allowed in Aryan sanctuaries (7, 21 5). Indra destroyed the phallic gods (chimadevan—Sisnadevan × 90, 3) As rats eat up leather phallus (signa), so cares consumed

Kurusravana who was harassed by Parsavah (Parsas · ×, 33, 2-3). Numerous realistic phallic emblems (lingam and yoni) have been found at Mohenjo-daro and Harappa The three-faced (trimukha) image with buffalo horn headdres, seated on a stool with erect penis, surrounded by animals, found at Mohen-jo-daro and Harappa, is of Caspian type with long eagle nose, square face and broad chin but with dolichocephalic head, tall and heavy bony frame. Phallic worship is a form of sympathetic magic to promote the growth of vegetation by means of symbolic sexual indulgence. Phallicism was most pronounced, attended with sexual orgies in the Mediterranean regions, particularly in Syria. In the Dionysiac rites the phallus was carried at the head of the processions and was immediately followed by a body of men, dressed as women (the *thyphall*) and by Bacchantes. In Rome the phallus was the most common amulet (fascinum) worn by children. In Naples Museum almost all the household goods, even oil lamps, are in phallic shapes At Hierapolis (Holy city) in front of the sanctuary of Atargtis there were two huge phalli and the tank of sacred fish Sexual luxury was the fashion of the temple as in all Mother Goddess (Cybele) or Great Mother of the gods temples The Hindu Linga and Yoni cult was introduced by Kāsi (Kassites Khasa) conquerors. Lingam symbolizes the phallus with a drop of semen on it (bindu), the yoni is the vulva Usually lingam is inset in the your (Mohenjo-duro). Evil eye (aghora-cakshu) is found in the Vedas (x, 85, 44) To avert evil eye the Egyptians and Babylonians used to wear amulets Eat not the bread of him that hath as evil eye, neither desire thou his dainty meats (Prov 23, 6) Among the Kassite boundary stones, stone phalli with rounded tops have been found NAKTA is the night sky, rounded tops have been found NAKTA is the night sky, Rātri The goddess Rātri with her countless eyes puts on glorious appearance (×, 127, 1) The immortal goddess fills the void, high and low, with her light she conquers gloom (tamah. \(\sqrt{Tam} = \text{to choke.} \) Skt tamas, Lat. tenebre=gloom, timor=fear, tem-ere=blindly ×, 127, 2) Naktoshas are sisters, daughters of Dyaus \(\sqrt{Nas} = \text{to disappear} \) Skt. mashta=invisible; nakta=Gk \(\text{nyks} = \text{Lat} = \text{nox} = \text{Lith} \) naktis = Russ \(\text{noche} = \text{Ger} \) nacht=uwed \(\text{nath} = \text{night} \) Lat \(\text{nex} = \text{death} \) Gk. \(\text{nekys} = \text{a} \) corpse. Tent \(\text{night} \) goddess is \(\text{Nat,} \)

the autumnal equinox which is Vishnu's second step then again from the autumnal equinox to the winter solstice (dakshinayana) which is Vishnus third step Thrice the god (Vishnu) rotates in his grandeur over this earth with a hundred rays (7 101, 8) Two of Vishnus steps (at the solstices) are visible to the mortals, but not the third (at the equinoxes 1 155 5) If the three steps of Pishnu were the sunrise, the noon and the sunset, then the third step at the setting sun would have been visible and mentioned. (Fuhru) like a rounded wheel has set in swift motion 4 times 90 (1 165 6) From vernal equinox to summer solstice there are 91 days,—from summer solstice to autumnal equinox there are 91 days From autumnal equinox to winter solstice there are 91 days. From winter solstice to vernal equinox again the same 91 days. The Vedic Aryans calculated the year of 860 days consisting of 12 lunar months (two-Pakska) Vishnu, the wise can surely see as the eye (the sun) of the heaven (1, 22, 20). The last step of Vishnu (paramam padam) is to be seen near the Ursa Major (at the summer solstice Bhag P 5 22 16) Vishnus three steps are solstices (Ast Br 19 3). He goes north for six months and then he stands still (first step), being to turn southwards (at the autumnal equinox) He goes south for six months. He stands still (vernal equinox; second step) being about to turn north. Thus for the third time they obtain (at the summer solstice) 19 8) Vishnu is universe in the cosmic him (Ait Br Surumura (dolplin) enclosing within its coiled body all the constellations and planets. In the end of the tail of Sisumera is the Dhurba (Thuban) in its beginning Prayapati (Orion) Varu (Arcturus) Indra (Centaurus) and Dharma (-Yama - Perseus). Above the tail is the Dhata On its hip is situated Saptarshi (Ursa Major). On its southern side is Abhyst (Vega) and Punarvasu (Pollux) On its back is Ajabitha (Capricornus), and within its intestine is Akara Ganga (Eridanus) On its right and left buttock are Punarvasu (Pollux) and Pushya (Sirius). In its right and left legs are the Ardra (Betelgeux) and Ashleshi (Alphard) In its right and left also of the nose are the Abhyst (Vega) and Uttarasara (Elkaridab) in the right and left eyes Sravana (Altair) and Purva Ashara (Kaus Australis). Within

MYTHS 285

the right left ears Dhanistha (Castor) and Mula (Shomlek). In the right left ears Dhanistha (Castor) and Muta (Shomlek). In the neck is Purva Bhadrapada (Markab), in the right and left shoulders Satavishā (Skat) and Jestha (Antares) In the right cheek is the Agastya (Canopus) and in the left Yama (Perseus) In the mouth is the Mangala (Mars), in the penis Sani (Saturn), in the neck Vrihaspati (Jupiter), in the heart Surya (the Sun), in the mind Candra (the moon), in the breasts Asvins (Pegasus and Equuleus), in the navel Budha (Venus), and all its hairs are stars (Bh P 5 23). Vishnu is represented in modern Hindu worship by an ammonite, its internal spiral chambers being similar to 360 daily wheels (chakra) of Vishnu Possibly it also represented the zero conception of the Budhists It is known as Nārāyana There is a Hittite god Inar = Gk. aner = Skt nara-man = son of man Bhaga (Kassite Bugaas) represents the course of the sun from the autumnal equinox to winter solstice, that is the harvest season. May Bhaga be our true Bhagaban (bliss giver) And through him, O Gods, may happiness be ours (7, 41, 5) Bhaga associated with harvest and marriage (x, 85, 28, 14, 1, 20) became general god of blessings (Av 5, 26, 9) Uttara Phālguni (Denebola in Leo) is associated with Bhaga and is called Bhāgya Ahura Mazda is Mapista Bhaganam and Aniya Bhagaba, meaning god Slavic Bogu means god Phrygian Zeus Bagaios means god Zeus Greek Phegonais means Oaken god VBhog=to obtain one's share, to enjoy Skt bhaksh—to eat, bhoga=eating, enjoyment, bhoja = leading a life of enjoyment, bhaga = prosperity, enjoyment, vulva, sexual pleasure Bhaga = Av bagha, Iran baga = O. Sl Bogu, bogatu = Lith Bogatas, na-bogas = Gk Zeus Bagais = Kassite Bugaas. Gk phog-ein = to eat, phegos = oak acorns. Lat fogus As boc = beech Bhaga representing the harvest season is symbolized by the northern constellation Cygnus which becomes very prominent in the sky on the Milky Way in September in the shape of a swan In the harvest festival, the Egytian, Ethiopian, Teutons, and even to day the Danes and Americans feast on goose The German great festival was held in the autumn On this day wheaten cakes in the shape of horns were baked in honour of god Thor which are now baked in northern Germany in honour of St Martin St Martin's goose also appertains to these ancient superstitions. In U.S.A.

Thanks-giving Day which takes place on the last Thursday of November is celebrated with feasting on roasted goose with reddish cranberry sauce.

MITEA is the course of the sun from the winter solstice to vernal equinox. Mitra is Avestan Mithra and the chief deity of the Mitanni which was especially invoked in their alliances and treaty obligations with other friendly peoples. Mithra was the chief god of the Zoroastrians and became the fashionable object of worship of the Boman aristocracy, particularly of the army officers. The birth of Mithra was held at the winter solution when the (Christman) day begins to lengthen. But the great feetival of Mathra was celebrated at the vernal equinox (the present Easter) In these festivals Mithra is represented as a veliant youth with a conical cap on his head slaying a sacred bull with a dagger, a scorpion = Ahriman screent drinking its blood; the dog as a guardian of the dwelling springing towards the wound in its side wheat sprouting on the side of the tail symbolizing the result of the sacrifice. The meat was partaken and much drinking was indulged in the midst of merri ments. It was the mythological representation of the sun (Mithra) entering into Taurus at the vernal equinox, and Scorpio Serpens and Canis Major are in opposite colure to Taurus Mithra s messengers are the raven (Corvus) and a hon (Leo) Early Christianity owes its origin to Mithraism The sanctification of Sunday and of 25th of Dacember the atoning sacrifice and the resurrection of the flesh, Christianity borrowed from Mithrausm which was the popular cult of the Roman army and merchantile classes Since the time of Augustus in first century B C to 1st century A D Roman emperors encouraged Mithrasm for its support to monarchy

VARUMA is the course of the sun in the sky from summer solatice to autumnal equinox; Bhaga from autumnal equinox to winter solatice; Metra from winter solatice to spring equinox and Indra from spring equinox to summer solatice Varuma is Greek Uranus (Uaruano Uranos) and Khatti Arun (ashenorific title) meaning the sea and the heaven Mitanni Uruwano, Av Varan Varuna is orderly white in colour and his garments are golden. Varuna as Agnis brother and friend (4, 1, 2) Ushas (dawn) is Varuna's sister (1, 123, b) Varuna wears

a golden mantle (drapi) and puts on a shining robe (1, 25, 13). Varuna's messengers are thousand-eyed (Av. 4, 16, 4) This indicates the nocturnal aspect of the Varuna and stais are his messengers. Varuna makes his own lustre white and black (8, 41, 10) This shows that Vaiuna is both the day and night sky. He has made the golden swing (the sun) to shine in heaven (7, He has made the golden swing (the sun) to shine in heaven (7, 87, 5). He has made a wide path for the sun (7, 87, 1) The wind which resounds through the air is Varuna's breath (7,87,2). He has placed fire in the waters, the sun in the sky and Soma on the rock (5, 95, 2). By Varuna's ordinances (viatani) the moon shining brightly moves at night and the stars placed up on high are seen at night, but disappear by day (1, 24, 10) This clearly indicates that Varuna represents the sky from summer relative to autumnal agrees. clearly indicates that varuna represents the sky from summer solstice to autumnal equinox. During the summer not only the sun is very warm, it is the season of the monsoon, so Varuna is associated with water. Greek Ouranos (Uranus) is Heaven, the husband of Gaea (Vedic Go=the Earth) /vri=to cover, to surround Skt. var-man=armour; varna=colour (orig a covering), Varuna=Sky Gk erion=wool (covering), Ouranos the sky Lat or-nare=to adorn (cover), uel-lus=fleece, Ouranos used to bind his children of Gaea and burry them in her bosom, thus swelling her body. Gaia instigated her son Kronos to emasculate Ouranos with a sickle. Varuna was deprived of his virility (Av 4 4 1 mrita-bhraja). Varuna used to cause dropsy In the Polynesian legends there is the myth of the separation of the Heaven and the Earth from the their primeval unceasing connubial embrace It seems likely therefore that the Kranos and Gaia myth originally belonged to the Caspians, from whom the Aryans borrowed it Soma-Chandiama-Pavamana—Indu—are the names of the moon Soma is Baby Sin, a corruption of Zu ena=knowledge lord Soma, Pavamāna, Sin, a corruption of Zu ena=knowledge lord Soma, Pavamāna, Indu are the same (9, 11, 9) Pavamāna has produced periodicity (lunar) and pretty light, destroying darkly gloom (krishna tamānti: 9, 66, 24). Through the night (naktam) Candrama moves in splendour (1, 24, 10) The ancient one (Indra) has awakened the young moon (crescent moon) from slumber who runs his circling course with many (constellations) round him Behold the great divine wisdom He who died yesterday (new moon) is living to day (x, 55, 5). Through eternal laws

(atya √ Sadh=to lead straight to a goal, Skt. Sadhanaaccomplishment; Satys = reality Lat satis = enough; satistus -to satiste Lith. sotus, sotis-sated full) the earth staysfirmly in the heaven by the sun ; through laws (rita) the lummaries hold fast and Soma stays in the heavan (x 85 1) Through Some the lummaries are strong; through Some the Earth is great Thus Soma has his place in the midst of constellations (X 85 2) The ancients believed that the moon beams were essential for plant growth. For this reason Soma is said to have generated all the plants (1 91, 22) and is therefore called lord of the forest Vanaspati (1 91, 6) Of all the plants Soma (Cannabis indica) is the king (x 97 19). Some plant is pressed between stones into a paste which mixed with butter milk honey and roasted barley powder is strained through woolen clothes (9, 69 9) and made into a pleasant intoxication beverage This Some drink (Av Haoma), Some plant and Some as the moon though entirely separate have been in later Vedic times confused into a religious ritual Pythia at Delphi chewed laurel leaves and bernes (Laurus nobilis) which are aromatic exitant and narcotic and in intoxicated and convulsed state with frothing mouth delivered her oracles The moon itself was supposed to be full of ambrosis which was the food of the gods and Pitris though the moon assumes the rays of Surys for his robe (that is the moon beams are the reflected light of the sun on the lunar surface' spinning in his movements (9 88, 32) Some contains honeyed drink which being fed by the gods and Pitris, is reduced in size and the tolar rays make the supply full (Matsyn P Ch. 59 50 ; Art Br 7 11 Sat Br 1 6 4.5 Kaus Br 7 10; 4, 4; Chand Up 5, 10 1) Raka is the full moon. She is lovely in form and giver of blessings (aubhaga). With a never breaking needle she mends the leathern armours of horocs and grants wealth and heroic sons to her adorers (2, 32, 45) Raka in later mythology developed into Rama and Laksini, wife of Vishnu, and giver of prosperity Raka is the Gk. Tyche and the Roman Fortuna. Fortuna is a very ancient Roman deity and was worshipped over the whole empire. She is represented on coins with a cornucquia as the giver of prosperity a rudder as the controller of destinies and with a wheel or stand ing on a ball to indicate the uncertainty of fortune. Sinivali is

the crescent moon Sinivali is sister of gods Sinivali is broadtressed (horns of crescent moon) and mother of many sons is queen (Vispatni - Vispala who was given iron legs by Asvins, that is the crescent moon began to grow larger 2, 33, 6) Gungu is the half-moon; Kuhu or Kāli is the invisible new moon. Asvins restored Kali's (new moon's) strength Kali in later mythology became goddess of time (Kāla) and death Kali is Gk Karon (Charon) who conveyed in his boat (time) the shades of the dead across the liver Styx (Milky Way) For this service he was paid with an obulus which coin was placed in the mouth of every corpse before its cremation Karon is represented as an aged man (representing time) with a dirty beard and a mean diess \sqrt{Svar=to shine Skt svarga=shining abode (sky), Surya = the sun Gk selas = splendour, selene = the moon Hera =Skt svara=the heavenly light Lat sol=the sun, seienus= The dark half of the moon -Ayuva (Sat B1. bright, serene 8, 4, 2, 11)—is the Greek Aia. Ushas is the Dawn Maiden Ushā shines with the light of the sun, the light of her lover (1,92,11) Surva goes from behind after the shining goddess Ushā as a man follows a maiden (1, 115, 2) Tairy not O daughter of the sky (divo duhitā = Lith diew-dukte, the name of Ushas) or Suiva in his glowing aidor may clasp you in his fiery arms and bland you as a lobber is branded with the marks of a thief (5, 79 There in the east, the Heaven's daughter, appears in the garment of light (1, 124, 3) Ushā smiling and well-attired, like a wife to husband, leveals her beauty (1, 124, 7). Loidship for one, lenown for another, gain for one, working pursuits for others—for means of livelihood for all—Ushā has awakened every one (1, 113, 4) This youthful Heaven's daughter appears flushing in her shining raiment. As a maid embellished by her mother, you are showing your charming to all (1, 113, 7) Like a maid, revealing her beauty, O goddess, you are going to the god who is longing to win you. And smiling and youthful, shining gloriously, you are exposing your bosom to him (1, 92, 4) Ushas is the first to be invoked (prathamā) at every morning sacrifice She is almost the foremost goddess (agriyā) Ushas is Greek Eos, Lat Aurora, Lith Auszra, Teut Eastur Eos is also called Erigenes Ahanā comes near to every home—she who makes

every day known. Pleasure-loving Dyotana comes everyday and takes the first portion of every offering (1, 123, 4) Ahana is the Greek Athene and Dyotana—Daphane Ushas springs from the fore-head (east) of the sky (murdha drouh) Athene sprung up from the fore-head of Zeus (Dyaus) As Ushā is followed and loved by Surys Daphane is similarly pursued by Apollo being charmed by her beauty Bhagas sister Verunas twin-sister Ushā endowed with excellent conduct (sunnit) is the object of our adoration (1 123 5) Athene is noted for her wisdom like Ahanā (Ushī vush—to shine Skt. ushna—hot; Ushas—shining dawn Gk. cos—dawn Heleos—the sun; Lat. aurora—dawn, surum—gold) Ushas is called Mahi (grand) Greek Maia.

12-RACIAL COMPONENTS OF INDIA

Australoids spread over the country in paleolithic age They have been mostly absorbed Pure Australoid is difficult to find, though the Australoid forms the base of the popu tion and is a primary constituent of the lower strate of the society Australoid is found still in a few isolated forest caves of Cevion known as Veddhas Paleolithic quartz and churt implements such as hammer-stones arrowheads cores worked flakes and scrapers have been found in the old Veddha caves of Katragam and Uva in Ceylon as in Narinada valley bed The Veddha is of medium height with slight muscular development He is wavy haired with black deep set eyes. His head is long and norrow with anub bridgeless nose sunk at the root and wide nostrils. His brow ridges and cheekbones are prominent His usual food consists of jungle yams and berries. dried flesh and honey Veddha is particularly fond of ment of iguana and ape The Veddha will not eat the flesh of elephants, oxen, leopards bears lackals, wild and domestic fowls. The Veddha clan system is based on mother's descent.

The daughter and son represent mother's family. No one must marry within the same family The right marriage for a Vedda is to take the daughter of his mother's brother (preterably the younger), and for Vedda maiden to marry her father's, sister's son or her mother's brother's son The children of brothers and sisters are regarded as brother and sister (hur a and nena), and sexual relation between them is regarded as incest Marriage takes place even before puberty. The prenuptial sexual unions between allotted couples are viewed with tolerance. There is a strict avoidance between mother-in-law and son-in-law Sometimes two brothers have a common wife. and two sisters have a common husband Second marriages are frequent, a man usually marrying sister of his divorced or deceased wife, and a woman hei divorced or dead husband's brother But infidelity either of husband or wife is very rare. The children are well cared for, old age is reverenced. The Veddas believe that the spirit of their dead relations Nae Yakku haunt the vicinity of their caves and are able to protect them if propitiated, and to do them mischief if ignored Besides these they revere the spirits of their legendary hero brothers—Kande Yakka and Blinde Yakka, to whom the Nae Yakkus are subservient When a man dies in a cave they cover his body with leaves and branches, abandon him, and leave the cave in with leaves and branches, abandon him, and leave the cave in haste, for fear that if they stayed longer, the Yakku, the spirit of the dead person might do them harm. The Mahawamsa called the original inhabitants of Ceylon as Yakkhas. The Chinese pilgrim Hiuen. Tsang called the Veddas as Yakkhos. The skull found in 1912 at Sialkot is of Vedda type. Austric boomarang is known among the Kallan and Maravan tribes of Tanjore as valari or valai todi (bent stick) which is worshipped among them and exchanged between the husband and bride in the marriage ceremony. With the Maravan there is still a current proverb—Send the valai todi and bring the bride. There are elements of Austric roots in Dravidian languages. Among the Himalayan Tibeto languages, one spoken near Darieeling is called Yakha. Yaksha seems to be spoken near Darjeeling is called Yakha Yaksha seems to be the generic name of the pure Australoids, or Yaksha was a tribe of the Australoids Rāvana, Pulasta ruler and his ancestor Kuvera are mentioned to have ruled over Yaksha tribes.

Nagritos were known as Nishadas black as crows ve low in stature, with short arms high cheek bones and and nose (Bhag P 4, 14, 44) They have the complexion of charred stake with flattened features and dwarfish statu (Vishnu P 1, 13) The wretched Nishadas live in the hills an forests (MBh 12, 59 94) Among the Kadirs Paniyan and Mala Vedans the jungle folk, frizzly hair is sometim met with. The Kadirs and Mala Vedans chip all or some their incisor teeth, boys at the age of eighteen and girls at th age of ten or thereabout into the form of a sharp-pointed but not serrated cone with a chisel or bill hook and file Negrito Jakuna of Malaya Peninsula are accustomed to fil their teeth to a point, and the practice of filing and blacken ing the teeth is a necessary prefude to marriage; and the common expression that a girl is nubile is to say that she has her teeth filed The Negrito Semang and Sakai women of Perak wear a kind of bamboo combs in their hair with intri cate designs as a charm against diseases. A Kadir youth al wave makes a bamboo comb of similar design and presents it to his wife just before or at the conclusion of marriage cere mony and who always wears it in her hair and Kadir young men vie with each other as to who can make the nicest comb There is a Negrito tribe on the Persian gulf and in Susiana There are strong Negrito elements among the Niga tribes of Assami. In Burma there is a Negrito tribe called belung The Negrito has imparted to our aboriginal population curly hair black complexion and dwarpish stature

MONKITHER offshoots are numerous in this country. Not only the Finno-Ugrian Munda speaking aborgines, but also the lower classes of Bengal and Southern India belong to thom. The racial mixtures might be slightly different in various tribes. The buffalo (Mahtsha) culture of the Mon Khmers is represented by the Mahtsha karvata agricultural tribes of Bengal Mahisha Asuras of Puranic traditions—the ancestors of the lower classes of Deccan and the Todas of the Nillins. To the Finno-Ugrian Munda stock belong the Lähuli kurka, Munda and Savara languages. The Munda languages are Juang Goddba Kharia, Nahili Kherwan Mahle Karmali To the Khervan group are affiliated the Kolā, Turi Birjis Asuri,

Agaria, Birhor, Korwā, Bhumij, Ho, Mundari and Santali. That the Mundā languages have elements of both Mon-Khmer and Finno-Ugrian tongues is owing to the fact that in the composition of the Mundas there are the lacial factors of Mon-Khmers who were formed in the Mekkon valley and Palae-Alpines who spoke Finno-Ugrian tongues If not in Assam, at least in Northern Bengal and Southern Bihar the the Mundas got admixture of the Anavas who dominated there and came under their influence, and the Anavas were Palae-Alpines The Santhal is mostly a blend of the Australoid with the Mongoloid Santal is of low stature with an angular roundish face with broad nose, thick lips, high cheek bones, scanty beard, coarse and occasionally curly hair due to Negrito admixture Santals occupy the undulating forest land at the foot of the Rajmahal Hills, Hazaribagh and Manbhum The arms of Santals are battle axe like the Gonds, bow and arrows Armed with these Santals go out to hunt in a body, pursuing wild animals of all kinds except tigers and bears. Santhal is a lover of nature. He never fells down any useful or ornamental tree which gives his clearings a park like appearance Santhal is fond of music and dancing His flute is a simple instrument made of the bamboo, but gives out deep, rich vibrating melodious tones. Every Santhal village has a dancing ground where youths and maidens meet in the evening to dance and to sing. The maidens decked with flowers and feathers pair off with young men, all blithely dancing round a circle, their feet falling in fine cadence and singing delightfully to the tune of the musicians in the centre They enjoy great freedom in social intercourse Marriages are based on mutual selection But it is a wholesale group marriage the life of which is still practised in Brittany on the eve of Lent In the month of January all the candidates of marriage are assembled together and are permitted to have promiscuous intercourse with each other Each lover selects his future wife after the joyous carnival which lasts for 6 days and is known as Bandana When husband and wife do not pull on together, divorce is permitted by the Panchayet Oraon lives in the Chotanagpur plateau Oraon has a larger mixture of Negrito in him, betrayed by his dark complexion,

projecting jews, dwarfish stature and low and narrow head. His speech is akin to Kanarese He is known as Dhangar (hill man) He has been forced to this wild forest region by the pressure from Konkan of other later immigrants. As in Melanasia the bachelors of the village have a common hall (Dhumlaria) to themselves where they stay and not with their parents, while the maidens are billeted with the widows who if not discreet often allow them to mix freely with their Discipline is strict in Bachelors Dhumkaria where there is an elaborate system of fagging the smaller boys waiting on the elders, rubbing their limbs and combing their hair The bachelors hall has a dancing arena before it where youths of both sexes freequently meet to dance and to make love and during festival they usually dance throughout the night with carousal. Marriage is usualy based on mutual selection Oraons have two festivals-Sarhul which solem nizes the marriage of the earth and Karma which celebrates a plentiful harvest Orson cannot marry a woman of his own sept, but there is no objection for Orson marrying a woman of his mothers sept but he cannot marry the first cousin on the maternal side, nor his younger brother's widow but he can marry his elder brother's widow or a deceased wife s younger sister Munda principal tribes are Gadaba and Korku. Gadabas are found in Baster State and in Vizagapatan District. Sexual morals are loose Many irregular unions are recog nized among the Gadabas as a marriage. Thus a man is per mitted with the help of his friends to go and carry off a maiden and keep her as his wife more especially if she is a relative on the maternal side more distant than first cousin. Another form is Parsa Mundi by which a married or un married woman may enter the house of a man of her choice and became his wife It is known as Upalia whon a married woman clopes with a lover With the Bonda Godabia morals are stricter. The selected bride and the bridegroom retire to a jungle and light a fire there. Then the bride placing a burn ing stick presses it on the man a skin. If the man cries he is unworthy of her and she leaves him and remains a maid, But if the bridegroom can bear the pain with courage, then marriage is consummated at once by sexual union. Of course if

the girl has sincere love and regard for him, she may touch his skin very lightly with the burning stick. With the ripening of the mango there is the Ittakparva carnival The whole male population turn out to hunt And if they come out unsuccessful, women pelt them with cowdung on their return But if they succeed, they cook the games before Matideo, the god of hunting, and feast on it Men and women dance together to the music of a pipe and drum Sometimes the women dance singly or in'pairs, in a circle, their hands resting on each other's waists. A man and a woman will step out of the crowd and sing at each other in obscene language and gestures In the Puranas (Vishnu P. 4, 24, 13) Garddhava is the name of a dynasty and the Andras were succeeded by Gardabhila Garddhava is likely to be the Sanscritized form of Gadaba And Gardabhila might be a mixed population of Gadabas and Bhills In the Jaina Kālakācaryakathā it is mentioned that the Jaina saint Kālaka was insulted by king Gardabhilla of Ujjaini Kalaka pursuaded a Saka satrap to invade Ullaini who overthrew the dynasty of Gardabhilla. According to some legends Gardhabhilla is the father of Vikramādītyā, and according to others Vikramādītya's father was Gandhaivasena who had been cursed to wear to shape of Garddhara (ass) According to Athaiva Veda (4, 37, 7) Gandharvas are fond of dancing and are lascivious Is Gadaba made into Gandharva and Gardhava and Gardhabhila? And Gandhara has been named after the tribe Gadaba is also very fond of singing, dancing and lascivious Gadaba being a Mundá clan, and Munda is a corruption of Manda—a Cimmerian tribe, it is very likely that Gadaba was once à very powerful people and spread over central northern India and Afghanistan, and though now its Manda Cimmerian blood has been diluted beyond recognition by the infusion of Mongoloid Negrito and Australoid bloods, it has not lost its ancient Manda traditions Korku, another Munda tribe, live in the Western Satpura plataeu The Korkus are poor, but remarkably honest and truthful Korkus are of medium height, of dark complexion, has a roundish angular face, sub brachycephalic low skulled head with a short and wide nose, prominent cheekbones and a scanty beard. But the Korku is wellbuilt and muscular.

Korkus do not marry in their own sept as well as their first consins. When the bridegroom is dressed for the wedding he is given a sword carrying a pierced lemon on the blade, and he with his parents and relatives proceeds to the foot of a plum tree (Ber- Zizyphus Jujuba) when a fowl is sacrificed with the sword and the blood is split over the root of the plant. The party then dance round the tree Before the marriage procession is formed a blanket is spread in front of dwelling and the bridegroom and his elder brother's wife are made to stand on it and embrace each other seven times. This is the survival of the modified fraternal polyandry still practised by the Khonds under which the younger brothers are allowed access to the elder brothers wife until their own marriage. The ceremony then typifies the final embrace and cessation of this union at the wedding of the youth. When the procession reaches the brides house under the leadership of the bridegrooms annt or other collateral female relative she then searches for the bride. The bride is found hidden and closeted with her brother in law and who brings her forward to the pandal where the ceremony is concluded with a dance feast and an orgy of drunkeness Marriage is usually adult. The girl is generally married at 16 and the boy at 20 The Mundas who rarely see horses in their wild tracts make little clay horses to offer to their dead to carry their spirits to their ancestors. Mandas (Cimmerii) were great horse-riders Their sexual morals were loose They practised fraternal polyandry All the brothers usually married all the sisters so that joint family and joint property could be preserved and potect family unity and solidarity According to our Puranic traditions Kinnaro (Cimmerii) and Gandharva (Gadaba) of which Manda is a tribe are depicted as very lascivious fond of dancing and singing

Savara (Sawara Saonr Sahr) is found in Bundelkhand and in Ganjam and Vizagapatan, numbering about 100,000. It seems that they had occupied all this land but were separated by the intrusion of Gonds (Khonds) who now occupy the intervaining wild tract of territory. Scythian words for any was Sagar or Savara as in their language g and v were interchangeable. Savaras are accustomed always to carry an any with them and to worship it. We know the Mycenwans in Oreto were

accustomed to worship a double bladed axe. And Mycenæans are Caspians like the Sycthians (Sakas) and Cimbri, Vedic Sambara, a Mon-Khmei tribe (formed of the Cimbri with the Australoids) that moved to India and spread all over the country statuette Indus valley three-faced two buffalo horns are indicated Buffalo was associated with Mon-Khmer culture So it can be easily conjectured that the statuette represented a Mon-Khmer Savara (Vedic Sambara) who still wear buffalo horns in their war tribal dances and speak mixed Mon-Khmei Munda language In Ait Bi (&, 18) Sabara is associated with Kausika Visvamitias Savara marriage usually takes place after adolescence Savara bude is taken to the forest and tied to a Mohua tiee (mock capture) and then taken to her brother-in law who is permitted to talk to her in a an obscene and jesting manner (survival of fiaternal polyandry), after which there is regular feast and dancing, which culminate nuptial union Widow is bound to marry her husband's younger brother In case he is married and declines to take her, she can take a new husband who pays something either to father or her deceased husband's relatives Divoice is permitted Savara women are tattooed, and some times men also Savaras worship Bhavani (Artemis) and Buradeo (ancient god), called also Bhanava (masculanized Atremis Dionysus) with human sacrifice, now kids, wine and sexual orgies GONDS occupy the wild highlands of the Cential Piovinces, the heart of the penisula The KHONDS occupy the forested hills of Oiissa Both seem to be the two divisions of the same Mon-Khmer tribe, but not speaking Munda tongue They came later than the Mundas Khonds are lighter in complexion, taller in height and have a higher elevation of the nose than the Gonds indicates that they had a higher percentage of the Caspian blood in them Or the Gonds have been mixed up with the A tribe of the Gonds nearest to Cuttak is called Gor or Gaur Actually Gond if correctly pronounced is Gonr, d is pronounced as r, as Chandala another branch of the Khond is called in Bengali as Chārāla The Gond still fearlessly moves about the forest with a hatchet in his hand and subsists on roots, bernes and wild honey and the game he kills with his arrows In the wilder parts of Amarkantak and Chatisgurh they kill

their parents and relatives and feast on their cooked meat as was customary with the Massa-Goto Before the temple of Bhavani in the Amarkantak region, human sacrifices were made, the victims being waylaid and captured There is also Burra Deo (ancient god) before which human sacrifices used to be offered in the past. The Gaur Brahmins of Bengal and the Punjab seem to be the priests of Hindurzed Gonds. Gonds near Cuttak are called Gour So it is natural that the Gond priests are known by the name of Gaur the nasal sound of n being dropped The Gaur Brahmm is held in particularly low estimation Majority of them have adopted agriculture. And a few are priests of Hinduized lower classes. The Khonds in their forest tract always have with them a double-bladed are. The Khond youths and maidens have separated living quarters But the Khonds are very lascivious and youths frequently meet and make love to their own inclinations. And unmarried girls are not disgraced by motherhood. But formal marriage requires parental sanction, and a bride-price has to be paid. When the bride price is paid there is a feast and drinking orgy in the midst of which the bride is carried off on the back of the bride groom while all the maidens of the brides party follow the abductor and throw stones sticks, fruits, coloured rice at him, shout out at him insults call him thief and rayisher till he reaches his dwelling when his assailants return drinking dancing and singing obscene songs. Women have the right to leave their husbands 8 or 10 times in their lives. Human sacrifice (meriah) was prevalent among the Khonds in ancient days to their war god to insure victory and to earth goddess for fertility. The victims had to be of a different tribe and were well treated. If a female she was encouraged to have all the pleasures of life and to have children to promise satisfactory good crops. If a male all the delights he could wish. Women took pride to have sexual congress with him. Cultivators and herdsman thought it luck to give him a feast. The Zanes (priest) officiated at the ceremony through the medium of the Toomba, a Khond child under seven years of age. For a month prior to the sacrifice there was much feasting and drmking with dancing round the Meriah who was adorned with garlands in the sacred grove. On the day of the sacrifice the victim is stupified with sexual orgics

and drinks, and the assembled multitude sing and dance-O goddess, we offer a sacrifice to you Give us good crops in return, good time and good health. The victim made senseless by intoxication is thrown into the pit and the victim's face is pressed down to die out of suffocation Then the zanee and after him all the cultivators cut pieces of flesh from the victim and bury them in their grounds Nanuka Chandel (Chandala), a feudatory chief of Bhoja and Mohendrapala about 830 overthrowing a Parihara chieftain, dominated southern parts of Chandels are found in the Simla hill state of Chanal is also a corrupted form of Chandala. Chanals are found as a menial class of Kangra and Mandi. The Gond priests when Hinduized have become Gaur (Gonda Dt) Brahmins who are found in W. India, Oudh, S E Panjab, Kangra and Chamba TODAS of Nilgiris, a dwindling pastoral tiibe (540), are heavily-framed tall dolichocephals with long thin highbridged prominent slighlty aquiline nose, elongated broad face, fine bearded people. They have bold-bearing open eyes but with low brows and heavy mouths Todas have rich brown com-The Todas practise fraternal polyandry, all the brothers and cousins jointly marrying all the sisters of another family When Toda dies, two or more buffaloes are sacrificed so that they may be servicable to the dead man in his next world. Todas believe that their god Teikirzi created out of dust a Toda and a buffalo with a bell tied round its neck. Of all the Mon-Khmers with buffalo culture that have migrated to India, it seems that the Toda has the largest amount of Caspian blood in him, mixed with the Australoid As the Todas are the pastoral tribe of the Nilgiris, the Kotas are the artisans and the Badagas are agriculturists of these hills. Near Kotagir there are dolmens, flat stones placed on upturned stones as among the Mon-Khmer speaking Khāsis, and in Europe, close to the village of Bethachada there is a row of cromlechs carved with figures of the sun and the moon, enclosed within a stone circle which the Badagas claim to be the work to the work their ancestors and to which periodical offerings are made Badagas have separated dany houses near a temple dedicated to Heththe, of which the priest like the Toda Palol a celebate, and like him equally licentious At the funeral ceremony a cow-buffalo is led three

times round the bier and a little of its milk drawn at the time is put into the mouth of the corpse. And then a buffalo calf is led near the dead man and his head is placed on calf's head and the calf's tail is placed in his hands. Adult marriage is the general rule among the Badagas, based on mutual inclina tions But Badaga women often change their husbands as long as they have beauty youth and health and when they lose their charms and find that love making and frolice are inexpedient then they stick to their last husbands It is the custom among the Badagas that when a woman's husband in away she is accessible to her brothers in law Widow usually marries the brother of her deceased husband and widow marriage is very common. Levirate is simply an evolutionary step higher than fraternal polyandry When a Badaga is in want of assistants and if he has a daughter he may promise her to the son of a relative or friend And the boy serves the father of the betrothed as one of his own family and after they attain their adolescence their marriage is consummated and he becomes a partner of the general property of his father in law But where the husband is much younger than his betrothed, until he reaches his maturity she can have sexual relationship with her paternal aunt s son in case there is none any one she likes. The head Panchait of the Badagas Monegar when he visited any village within his jurisdiction had the privilege of having any married woman or maid according to his choice to share his bed at night Nambudiri Brahmins of Malabar may be the advanced guard of the Todas Nambudhiri has the fine beard like the Todas and resembles him in appearence and custom. The Mon Khmer people who migrated in Deccan with buffalo culture known as Mahisha Asura Sambu (Sambara - Cumbri) They still form the backbone of the middle class population. Their power was overthrown by the victorious Turvasus (Meditorraneans) They are usually medium statured with dark brown complexion They are dolichocephals and have high cranial vault narrow vertical forehead with faintly marked supm orbital ridges They have elongated broad face. Their nose is long and promi nent; but nasal bridge is not very high and nostrils are some what spread out. Nairs with their matriarchal law of inherit age (sambandhan) seem to be western thrust of this racal

migratory movement, and the Mon-khmer speaking Kasia the eastern limit remaining as a distinct unit in India The Taravad of the Nayar's matulineal joint family in which the man, his sister, the children of these sisters and the children of their daughters hold the property in common resembles the Taviti (the names are also similar) ownership of the Solomon Islands But in the Nayai woman's non-frateinal polyadıy of group maırıage Nambudırı Brahmıns (except the oldest sons who are only allowed to marry among their own class) who resemble the Todas in appearance are allowed toconsort with Nair women. But the children of these unions 1emain with the mother and are Naiis Kuiubas of Nilgiii and Kammalas of Malabai also practise fraternal polyandry The Khasis have a large mixture of Mongoloid in them They are of medium stature, mesaticephalic head, light-yellow complexion and medium nose They not only speak a Mon-Khmer language, many words of Mon-Khmer derivatives have even entered into Sanskrit vocabulary Nārikela fion Malay, Sakai and Semang nigor = cocoanut and Taieng Kolai = fruit Kapola (ckeek) from Sakai Kapan (face), Bengali Kapāla = forehead Karkata = Malay Katām = ciab Bheka = Malay buak = fiog Janghā = Mon Khmer Jong - Santalı Jangga = foot Jaluka = Semang Jelo = Khmei Jhlong = leech Saisapa = Malay Sesawi = mustard Tandula = Sakai cendaroi (cooked rice) = husked rice Ghantā = Malay gendang = Sakan gentang (a kind of drum) = bell Gaja = Semang gaja = Tembi Gajah = elephant Kapota = Semang kawod = pigeon Kaka = Khmer kaek = Mon Khadak = ciow. Halāhala (poison) from Semang hale = cobra Kadalı = Sakei Keluwi = Semang Cedah = Palaung Kloai = banana Bāla = Malay bulu = Cambodian balau = Batak balu = hair Kambala = pressed hair = blanket Sālmali = Pali Simbali = fine hair of Bombax heptaphyllum Langala = plow and penis (linga), langula = bent stick, tail and penis, linga = penis Langala = Malay Tangala = Tembi tengala = Batak tingala = Khmer ankal = Cambodian lanan = Khasi Ka-lynkoi In Rv cane (vaitasena) has been vulgarily used as penis (×, 5, 5) Mayuia = Tamil mayil = Canarese maylu = Santali maiak = Mon mrak = pea-cock Phalam = Tamil palam = Khmer phle = fruit Dravidian words Matachi (locust), Markata (monkey), Khatta

(cot) Kukkura (dog) Keyura (bracelet) Mina (fish) Nira (water), have entered into Sanskit; khoka (son) talu (scalp) nola (tongue) meye (daughter) pilley (pola child) jhagri (fight-ing) have entered into Bengali. Khasis use shoul dered iron hoes double bladed iron sword and erect dolmens and table stones on their dead. Polyandry was practised in olden times which is replaced now with a loose kind of marriage and easy divorce, and the husband lives in the house of the wife Property passes by the female line and is always inherited by the youngest daughter reminis cent of matriarchy Remnants of human sacrifice and snake worship survive in the cult of Thlen the phantom serpent whose oult is hereditary in certain families and requires the offering of a human life. Human victims were also regularly sacrificed in the Synteng kingdom of Jaintia and these sacrifices were accompanied by ceremonial cannibalism. Khasi name might have been derived from the Caspian Kassite element in its Mon Khmer components The unmixed Caspian Ressites are called in the Himalayas as Khoa of Chitral, Khasas of the Dehradum and Simla Hill states and Khoza as a Baloch tribe and a Jat tribe Nairs (Newar) are a tall dolichoce phalic people with narrow nose and brownish complexion. They practise matriarchal polyandry Sister's son inherits the property as among the Nubians who are also a blend of the Caspians and Australoids Moscol, other as a dominant factor are not found in India proper except in Assam sub-Himalayan regions (Gurkhas) and in Afganistan (Hazara) extending from Kabul and Ghazan to Herat and from Kandahar to Balk, introduced by the Mongol invasion of Jenghis Khan. In the Purinas the Mongoloids were known as Hirania Kasipu (Yellow Man Golden Horde) Later it was known as Daitya and Kirata. Pralhada was a Daitya chief. There is still a Datys agricultural clan in Amritsar. but it has lost all its original imports. The Kiratas of golden complexion lived on the northern border of Magadha They are known in West Nepal as Kirāti in Nepalese history They are now represented by Gurkhas who are a mixture of Mongoloid Palae Alpine and Australoid Lepchas of Sikhim, Bhotus of Bhutan are a mixture of the Mongoloid,

Palae-Alpine, Caspians. Many of them are very tall with heavy bony frame and long fine nose. They practise fraternal palyandry, and sexual morals are very loose among them These people generally use a bent stick as a plow to dig into the earth Langala therefore means a stick which is pushed into the earth or the vagina, Langala is a hairy penis or tail Linga is a conticted form of langula and langula La in Santali means digging a hole in the earth, and loc = Malay lak = Khasi l-loh = penis Linga (penis) is cognate with loc Even Gurung is a mixed people The Dafla. Miri, Aboi, Mismi, Garo, Manipuri, Koche are dominantly Mongoloid with a slight mixture of the Caspian But some Abors and Mishmis are tall, have medium, nose and long beards. The Galong clan of the Abors practise polyandry and levirate But Abor woman lacks modesty, and chastity is not an Abor virtue Comely Mishmis whether married or unmailied are not different from their Abor sisters. Polygyny pievails, and the number of a man's wives is the test of his wealth and influence A Mishmi son always succeeds to the use of his father's widows, his own mother only going over to the next of kin among the males. Abors. Galons and Mishmi eat up their old parents like Massa Getae They sacrifice their captives before their war god Prang The Garos possibly migrated from Bhutan and belongs to the Boro (ancient) group and is related to Tipperas Kacharis and Koches Marijage is exogamous But the marriage proposal comes from the woman, who being accepted lives on biidegroom's house on piobation. And if the husband does not prove satisfactory to her she leaves him Man in love-making can make no advances, till a female encourages him She has the initiative in marriage and she is the dominant partner, she helps her husband in cultivating the She is robust, healthy and cheerful But this system is subject to compulsory cross-cousin marriage, coupled with the rule by which the man must marry his wife's father's widow who happens to be his own aunt-father's sister In that case she rules the household, dominating over her own daughter who was married to the same husband before her A man's sister's son-called his Mokrom-is his nearest relative as the husband of one of his daughters and ultimately

of his widow and the inheritor of his and his wife a property Their implements of husbandary are a hoe and a battle are which is used for all purposes and no Garo is ever seen with out an axe The Garos est all kinds of food, including cats, dogs, frogs and snakes. They rear kine, goats swine fowls and ducks Like the Nagas Kashis they abhor milk. Their and ducks Luke the Nagas Kashis they abbor milk. Their favourite food is roasted puppy. They used to make human sacrifices before their ancestors. The Puranic episode of Garura killing the Nagas is based on the bistorical facts of the conquest of the Nagas (mixed Mongoloids and Negritos) by Garos (Mongoloids mixed slightly with the Caspians). Koch belongs to the Boro group and originally spoke the cognate language. Koch mixed to a greater extent with the Australoid is akin to the Mech, Tippera, Garo and Kachari Koches in Cooch Bihar have adopted Hindu manners and customs. But the cultivation among the Koches is mainly with the hoe. When a Koch mixries he goes to live with his wifes mother and under her guidance. When a woman dies the property is dwied among her daughters. Widow marrage. the property is divided among her daughters. Widow marriago is common Lepcha of Sikhim is dominantly Mongoloid with a tinge of the Caspian The Lepchas practice fraternal polyandry and polygyny the brothers jointly marrying all the daughters of a man Marriago is by service coupled with a small payment But where the brothers are not in a position to marry all the sisters a man may cohabit with position to minist an are states a man may contain with the younger assters of his wife. The eldest brothers wife is common to all the brothers only the youngest having his wife to himself. Incest is punished with excommunica tion But chastity before marriage in an adult girl is neither met with nor cared for However after marriage she is usually faithful But marriage is often allowed on credit and is breakable if the payment bargained for is not made within specified time. The Lepchas are jolly cheerful and houest. Theft is almost uncommon among them. Among the Dhangars and Dombs marriage is permitted with mother susters chil dren which is only prevalent among the Mongoloids

Ikahwaku Dasaratha (1462 B C) of Ayodhya had three wives—(Kosalya, Kosala princess; northern part of Ayodya was occupied by Kasa-Kasaite) Kekayi (Kekuya princess)

and Sumitrā Rāma Chandra was born of Kosalyā, and naturally the heir-apparent, being the eldest son. Bharata was born of Kekayi, and Satrugna was born of Sumitrā, possibly a kinswoman It seems that the heir-apparent Rāma-Chandra's banishment was due to the Kekaya pressure and influence in the Ayodhyā palace. It is said that Dasaratha fought against Timidhaja Sambaras in alliance with Rājarshi tatithagas Divodasa. Vēsus B. 200 2000 in Variayanta. (Atithigva Divodasa Vāyu P 99, 200) in Vaijayanta near Dandaka forest Here Ikshvakus were worsted by the Samba-Dasaratha received several wounds on his body and fell unconscious in his chariot which was driven by his wife Kekayi who by her dexterous driving saved her husband's life for which she was promised two gifts by her husband (Ram 2, 9, 11-18). Kekayı demanded possibly backed by her powerful kınsmen who ruled in the Punjab that her son Bhaiata be made the crown prince, instead of Rāma, son of Kosalyā (Kassite princes) Kekayas are the Iianian 12th dynasty Kaikawas Possibly Ikshvakus were harassed Not only Kekayas were intriguing, Parthavas in alliance with Daci Srinjayas (1450 1450) BC) were defeating the Aipine Vrijnivants and Mediterranean Turvasus on the rivers Hariupa (Hariob) and Yavyavatı (Zob) Pulastas under Dasagriva Kubera Rāvana were also perhaps threatening from the Godāvari side Rāma with the help of Nishāda (Negiito) Guhaka and Bānaia (foiest-dweller = Veddhā) Sugriva rescued his wife Sitā who was abducted by Rāvana, and defeated the Caspians After his victorious conquest Rāma occupied the Ayodhyā throne, and Bharata as a protegee of the Kekayas ruled in Sindhu which was at that time under the possession of the Kekayas Possibly around this historical kernel of the Aiyan conquest over the Dānavas (called also Rākshasas), the Rāmāyanic myths have been elaborated Kuru Rithisena had three sons-Devani. Santanu, Vahlika Because of skin disease, Devapi could not be the king, and Santanu ascended the throne But as there was drought and famine, Devapi officiated as Santanu's priest for rain and on that occasion composed the hymn (×, 98) Santanu had by his wife Jāhnavi an energetic son Devavrata Bhisma But as Dvimiras under Ugrāudha were becoming an aggressive power by conquering North and South Pancālas, Santanu in order to

safeguard his throne thought it prudent to make an alliance with the neighbouring Matsya kingdom and married the Matsyi princess Satyavati on condition that her children would inher the Kuru kingdom setting aside the claims of popular hei apparent Devayrata Bhisma Santanu by Satyayati had two sons-Vicitravirya and Citrangada Satyavati had also maidenhood son Krishna Dvaipayana Vylsa by Parlsars Vasishtha Soon after Santanu's death Kuru kingdom was attacked by Dvimiras but the Dvimiras were not only routed South Pancila was absorbed by the Kauravas, and North Pancala formed a new kingdom by Prishats an old North Pancala Daci scion Citrangada was killed in his youth by Gardavabhills Vicitra virys was married to Kisi princesses Ambika and Ambalika who were abducted by Bhiama for his step brother Vicitra virya died soon after his marriage without leaving any issue So Satyavati appointed her maidenhood son Vyssa to raise issues of Vicitraviria through his widows to preserve the royal line as Bhisma had refused to perform the levirate, or perhaps Satyavati thought Dvaipavana was more intimately related to her than Bhisma Vyasa begat with Ambika Dhritarastra, and with Ambalika Pandu, As Dhritarastra was born blind. Pandu became the king But as the Pindu had been suffering from blood pressure he retired from royal acti vities and lived a quiet life in the forest; or more probably there was a succession contest and both of them got the Kuru throne as the party intrigues and turn of fortune favoured them Pandu had married Yadavi (Alpine) Kunti or Priths, sister of Basudova. and Madri the princess of Madra who with the Kekayas con opening the Anava kingdom Sibi had settled between the Ravi and Chenab having their capital at Sakala (Sialkot) Salya was its ruler at this time (Udyoga ch. 8) Asvapati father of Savitri of Satyavana episode was also a Madra (Matsya P ch 206 MBb Vana P ch. 206) Asvapati was the title of the kings of Madra (Manda) Cimmerians as Janaka of Videha kings Madra was a part of Bahika (MBh Karna P ch 45) Pandu was childless and he was advised to desist from sexual intercourse. So he consented to have his wives having children with any one they pleased; or both Kunti and Madri had the saxual prilvilege and freedom anyway And the later bards have this consent interpolated to legalize the children so that the custom does not appear revolting to the listeners Both the Alpines and particularly the Manda Caspians enjoyed sexual freedom Kunti had a maidenhood son-Kaina Thus Kunti became the mother of Judhisthira, Bhima and Aijuna, and Mādii became the mother of Nakula and Sahadeva These are known as Pandavas Whether the Pandavas are an allied Kuru or Krivi victorious invading tribe and to make the conquering horde popular in the public imagination, they were made victimized objects of sympathy and grafted on the Kaurava stem, or they were the real successor to the Kaurava throne and fortune played tricks with them is a debatable question They practised fraternal polyandry by jointly marrying Draupadi which Judhisthia claimed to be his family custom No doubt Kamboja Kuru was (MBh 1, 195) a Caspian tribe, and fraternal polyandiy was customary among them After Pandu's death Pindava orphans are made to Dhritarāstra's court at Hastināpuia ın rāstra mairied Gāndhāri (Semite), daughtei of Gāndhaia king Suvala and they had a number of children, headed by Durvo-Though the legitimacy of the Pandavas was questioned. they were brought up and trained in military aits, particularly in aichery with Duryodhana biotheis by Drona, and Kripachaivas Kauiavas attacked Pancālas Diupada, son of Prishata, was defeated But truce was made by compelling Drupada to cede North Pancāla to the Kauravas, and Dronācharya was made its viceroy Foi mutual aid and support Drupada of Pancala was forced to give his daughter Diaupadi in marriage to Pandavas in a polyandrous fashion after the Pracetas (Caspians) With the Noith Pancala and the Yadava support under the influence of Krishna, its chief Consul, the Pandavas secured from the Kauravas, south-western part of the Kaurava kingdom-the Khandavaprastha (extending up to Khandwa) with Indraprastha (Delhi) its capital A splendid palace was built by Maya Danavas and Takshakas who escaped from the Khandava forest conflagration for the Pandavas at Indrapretha But due either to court intrigues at Hastināpura or due to a defeat inflicted by the Kauravas the Pāndavas were driven out for 12 years

The Yadava (Alpine) system of government was different from that of the Ikshvakus (Aryan), Kurus and of Mlecchas

(Molossi Bhagadatta of Prdg jyotishs) It was a confederation of several independent clans the most important of which were the Bhojas Andhakas Vrishnis and Kukurus Each clan was ruled by its hereditary chief, but the administration of the entire confederation was vested in the assembly of the chiefs (Sanga Mukhyas) whose decision by majority of votes was conveyed to the public by its president (Sabba P ch. 210) by beat of drums. Devaki putra Vasudeva Krishna was the Sanga-Mukhya of the Vrishnis Kamsa of Mathurii was the president (Sabha nati) of the Yadava confederation Kamsa married two daughters -Astr and Prapti-of Jarasanda (of Kuru Britadratha) descent of Magadha Jarksanda aspired for imperial power imprisoned his feudatory chiefs and centralized his government He became powerful by making alliances with Mieccha king Bhagadatta of Limarupa, Pundra Visudeva (Caspian) of Vanga Danta Vakra of Karusa and Sisupilla (Alpine) of Chedi Embol dened by this alliance and support and the example of his father in law, Kamea imprisoned his father Ugrasene and became the chief of the Andhakas. And thus becoming the president of the whole confederation he began to rule it in an arbitrary and imperialistic way quite unlike the Alpine democratic method of mutual advice and consultation 'lo avenge this wrong, Krishna treacherously killed Kamsa, and elected Ugrasens as the president of the Bhoja, Vrishni and Andhaka confederacy this Jarasandha attacked Mathura with his allies Dantavakra of Karusa (Rewa), Chedi king Sisupala Pundra Vasudeva of Paundra Vanga and Kalinga; Kasaka (Kasate) Sankriti; Vismaka Ruksmi of Vidarba (Alpine) kings of Kosala (Kassite) Kisi (Kassite) Videha (Bessi) Madra (Manda Cimmerii) Trigarta the land watered by three rivers-Ravi Bias and Sutley-Kassite) Darada (Dardistan north of Kashmir Udayana Dards - Alpinesi, Sindhu (Caspian Sibi (Palae-Alpines occupied by Caspians) Suvala of Gandbara (Semite) Gonardha (Caspian) of Kashimir and Laurava Duryodhana Linding it hard to defend Mathury against the allied armies of Jamsandha the Sangha Mukhyas at the advice of Vasudeva Krishna removed their headquarters at Dvaravati in the Raivataka Hills (Girnar) And they enlarged, fortified and beautified it (Harramen, ch. 90 113 115). The Yadavas then hatched a conspiracy with the

Pāndavas and Ikshvākus under the instigation of Krishna to curb down the arrogance of Jarasandha's might And Krishna with the aid of Bhima and Arjuna treacherously killed Jarasandha and put his son Sahadeva on the throne Pandavas defeated the Kauravas in the Kurukshetra war about 10:8 B.C. and became the paramount power The Pandavas got as their allies Matsya (Mediteiraneans), Kekaya (Caspian), Kāsi (Kassite), Vrishni and Chedi (Alpine) Somakas (Daci-Caspian of Pāncāla under the leadership of hermaphrodite Sikandi), of Sahadeva of Magadha, Ghatotkocha (Pani) of Cachai The Kauravas were aided by Madra (Saka Murunda = Saka Svāmin), Caspians of Trigartha (Jallandai), Sindhu and Camboja Karkota Nagas (Caspians) of Mahismati under the leadership of Nila, and Anga Palae-Alpine under the leadership of Karna Mleccha of Pragiyotisha under the leadership of Bhagadatta, Semites of Gandhara under the leadership of Sakuni, and Negro or Caspian Alambhusha Nārada and his nephew Parvata, descendants of Kanva Medhatithi, instructed the substitute of Soma drink to Sahadeva, son of Jarasandha of Magadha, Somakas of North Pancala Dynasty, Babhru Daivavridha, Bhima Vaidarbha, and Nagnajit Gandhara (Ait Br 7, 34, 9). Nagnajit Suvala of Gandhara, a disciple of Prahlada (Parvata), had a son Sakuni, daughter Gandhari (married to Dhritarastra) and Asura Isupa = Nagnajit (MBh 1 67) Suvala Nagnajit joined Jarasandha against Krishna (Vishnu P 34), and Krishna murried his daughter Satya Nagnajitt (Vishnu P ch 60) Sakuni joined Kurus against Pandavas. Narada was a great friend and counselor of Yadava Krishna Parikshit, son of Pandava Abhimanyu and Matsya princess Uttara got the advantage of the decisive Pandava victory over the Kurus Parikshit (Av 20, 127 7, Ait Br 7, 21) became a mighty sovereign He married a Madra (Cimmeri) princess Madravati, ruled over an extensive kingdom from the Sarasvati to the junction of Ganges and the Gandak, for 24 years, but was assassinated by Takshakas (Taliks) at the age of 60 (MBh 1 49, 17, 26) Parikshit was succeeded by his son Janamejaya who waged war against the Takshakas, was a great conqueror (Ait Br 8, 21), occupied Takshasila (Taxila) and aspired to be an emperor (Sarvabhauma · Ait Br 8, 11) Janamejaya had as his priest ministers Indrota Daivani Saunaka and Tura Kavashya

(Mediterranean). But he antagonized the Kasyapas who forced him to abdicate his throne in favour of his son Satanika, Satanika s son was Asyamedhadatta His son was Adhisima-Krishna. His son was Nicakshu during whose reign Hastinapur was washed away by the Ganges and he removed his capital to Kausamb: It is more likely that foreign aggression in the North forced Nicakshu to remove his capital to the South. And also it is possible that the kingdom was aplit up into two through succession fouds and the seceders established their capital at Kausambi. Abhipratarin Kakshaseni is mentioned as a Kuru king with Driti Aindrota son of Indrota Daivapa Saunaka as his priest (Ch. Up) Kakshasens was a brother of Janameraya (MBh. 1 94 54) There was also a famine in Pancala due to the devasta tion of crop by enemies (Mataci) possibly Kekayas which forced Ushati Cakrayana, Svetaketu and his brother in law Kahoda his nephew Astavakra to migrate and they with Yajnavakya frequented the courts of Janakas who became powerful and generous patrons of learning It is said that Mathava Videgha (Mith) Videha) introduced fire worship the Aryan custom through the priest Gotama Bahugana of Sarasvati along the river Sadanira (the Gandak or Rapti) which formed the boundary between Kosala and Videha (Tirhut) But the Maithili power did not last more than a century In the seventh century B C Northern India was invaded by the Caspian hordes and conquered territories up to the Gangetic plains

The Caspians that settled in India were of different clans Kambohas settled in Kamboja (Upamanyus are mentioned in Bv 1 102 9 Kamboja Aupamanyava is one of the teachers of Vamas Br kambojas of Rajapursm (MBh 7 4 5) lay to the southwest of Punach Cambysis (Iran. Rambujiya) was the ancestor and son of Gyrus (Iran. Pur Kuru); Kekayas and Madras in the Punjab Sakyas in Kapilavastu; and Kolis in the Sub-Himalayan region Khasas in the Sub-Hima layas and in Kosala Maur Guptas (Moor Copts) in Swat (Sasi Gupta) in Pipphalwana (Moryas) and in Magadha (Maurya Gupta) issunags (Sesunaks of Susia Sces of So,dina; some clans of the Sakas used the title of Nagas) Maila in the valley of the lower Ravi (Malloi of Alexanders) immo) in Malava which has been named after them, and of

Kusinagara at the junction of the Gandak and the Rāpti (Mallas, Muli of Caspian type, tall, fair complexioned dolichocephal with broad elongated face, is found in Chinese Tibetan iegion—Szechwan N G M Oct 1938), and Vajji (Licchavi—Nicchavi of Kullika Bhatta, commentator of Manu Nisibis settled in Mesopotamia and Iran after whom Nisobis towns were made in them), Kathi (Kathaior of Alexander Krātha of MBh 8, 85, 16) between the Jhelam and the Chinab with Sangala in Gurudaspur as their capital, (Katha of the Yajur Vedic Kathaka Sākhā and of Katha Upanishad, Germanic Catti of Tacitus), Bhagga (Bhargas Ait Br, 8, 2, 8) of Samsumāra Hill, Bulis of Allakappa, Kālāmas (Kālama Alāra) of Kesaputta (Kesins Sat Br 6, 61)

Sisunagās (Susinak of Susiana, Sces of Sogdiana - Sesanags) occupied Magadha Māgadha itself is Saka name for warriors, Maga (vai Mriga Gk Magos, Eng Magi priest of the Zoroastrians) is the priest, Māgadha is the warrior, and Mānasa is the labourer, without any distinction of Caste, all worshipping the sun Mihir) in Scythia (Saka dvipa Vishnu P 2, 4, 6)-71) Bimbisāra was a great king of the Sisunags, fifth in descent Senika Bimbisaia (528-509 B C) was contemporaneous with the Sākvasimha Gautama, the Buddha (550-478 B C) of Kapılavastu and Gnātrika Jina Vardhamāna Mahāvira of Vaisāli Bimbisāra kept contact and friendly relationship with his allied kinsmen all over the country He married the sister of Prasenjit of Kosalā and got the province of Kāsi as dowry It seems that Kāsi was under the domination of Kosalā and if Kāsas were still in power they were as feudatory chiefs. Bimbisara married Khemā—a Madra princess Khemā became Buddhist nun and taught Presenjit Bimbisāra also married Cellana, daughter of the archon Chetaka of Vaisali and the son of this union was Ajātasatru Trisulā, sister of Chetaka was married to Sidhārtha of the Gnātri clan of Kāsyapa gotra of Kundapura and their son the famous Jina Vardhamāna Mahāvira. Bimbisāra received an embassy from Pukkusāti, Kāmboja ruler When Bimbisara heard that his friend Mahāsena Canda Pradyota of Avanti was suffering from jaundice, he sent his distinguished physisian Jivaka to cure him When Gautama

Buddha came to Rajagriha, Bimbisara welcomed him as his kmsman. Kunika Ajitasatru (500-474 B C) usurped the Magadha throne by imprisoning his father Bimbisara At this Prasenit took back the Kisi province he gave to his sister as her bath and perfume money Then Ajätasatru invaded Kosalä, and Prascujit was compelled to make a seem. ingly honorable truce with Ajatasatru by giving his daughter Valura in marriage to him and to cede the same Kasi terri tory ostensively for which war was declared as a dowery for Thus Alatasatru is known in the Upani shads as the king of Kası Possibly he also acted as viceroy of Kası during his father's life time. Ajatsatru made also war against Vaisali and absorbed it in his Magadhan Kasi empire after a hard struggle for 18 years. It is said that Seniya Bimbisars gave a necklace of 18 strings of jewells and an elephant Seyanaga (Secanaka) to his younger son Halla, born of his wife Chellana, the daughter of Cetaka, chief of Vaisali confederacy At the wish of his wife Paumavai, (Padmavati, daughter of Chetaka) Ajatasatru demanded from his brother Halla the return of these gifts. Halla took refuse with his grand father Chetaka who refused to surrender him At this Alatasatru waged war against the Vaisali confederacy and aborbed it after a hard struggle for 18 years patronized Buddhism while Alatasatru in the beginning anta gonized Buddhism and as a state policy favoured the Sanga organization of his maternal uncle Jina Mahavira. But after his antagonism with Vaisali, he befriended Buddhism. Prasenut of Kosala married a Sakya maiden Vasavadatta of Kapilavastu. Their son was Virudabha. Virudaka in conspiracy with the commander in chief Digha Carayana usurped his father's throne and he made war on Kapilavastu to avenge an insult; and killed about 70 000 Sakyas out of a popula tion of about 800 000. Mahasena Canda Pradyots founded the Mahakala temple of Avanti. He treacherously impresented the Kuru scion Udayana of, Vatsa (Kausambi) Udayana was a fine youth Pradyota's daughter Vasavadatta was a comely intelligent maiden. They fell madly in love with each other With Vasavadatta's help Udayana managed to escape and they were married Pradyota was succeeded by his son Palaks.

Palaka was assassinated by the infuriated mob of Ujiaini about 477 B C. Udayana claimed succession through the right of his wife—Vasavadatti—and he got Avanti Ajātasatru was succeeded by his son Darsaka Darsaka was dethroned by a revolution in 477 B C Udayana managed to marry Padmāvati, sister of Darsaka And he perhaps through court intrigues fostered revolution and secured Magadha throne Thereby consolidating Avanti, Vatsya and Magadha, he became the paramount power Udayana (Kāmā Asoka=Kāla Asoka) in the fourth year after his acquisition of Mdgadha built Kusumapura (Pātaliputra), and made it the Capital of his consolidated vast kingdom And by mairying Priyadarsikā, daughter of king Dridhavarman of Anga, he also incoiporated Anga within his empire The Kuru Udayana dynysty, was overthrown by the terrible invasion of the Sudrss (Chudes) under the leadership of Nandivardhana and Mahānandin. Mahāpadma Nanda is said to have brought all India, particularly its northern parts under his sole sway, uprooting all the ruling powers (sarva Kshatrantaka) and became the sole monarch Pānini was his friend (AMM 439) Kathā Sarit the ruling powers (sarva Kshatrantaka) and became the sole monarch Pānini was his friend (AMM 439) Kathā Sarit Sāgara mentions the camp of Nanda Rajā in Ayodhyā The Hathigumphā inscription mentions Nandarāja in connection with an aqueduct of Kalinga and he carried as trophies the statue of the first Jina and other souvenirs and treasures of the Kalinga kings to Magadha The Nandas in the south at least conquered up to the Godāvari, for on it is found a town—Nan Nand Dehra (Nander) Several Mysore inscriptions state that Kuntala (North Mysore) was ruled by the Nandas The Greek historians tell us that beyond the Beas, there was a powerful Gandaritai (Gangetic) king Agrammes (Augrasainya, successor of Mahāpadma Ugrasena) had 20 000 cavalry, 200,000 infantry, 2000 four-horsed chariots and 3000 elephants, and Alexander's army officers were afraid to try, strength with him The Macedonians were mostly Caspians There was but slight Aryan elements in them, but in the imperial army there were large contingents of Ionian soldiers After Alexander's death, Macedonian Seleukites fought against the Ionian Demetrius for supremacy and in mutual antagonism, trivalry and slaughter, Mecedonian empire vanished Parsis

also served in the Macedonian army According to Strabo-Cyrus led an expedition against India through Gedrosia (Kadru) but met with failure But according to Pliny Cyrus destroyed the city of Kāpiss (Chinese Kipin on the Kabul Kāpisi of Pānini) Arman mentions that the region west of the Indus -Asmaka - Asm tribes - Yuechi Asvakas had in their come of 800 B C fig tree (vats) hill sysstika symbols They paid tribute to Cyrus son of Cambyes as ruler of their land. In the Behistan inscription of Darayavaush (Darius 522—186 B C) Gadāra (Gāndhāra) is mentioned as a subject people Indus (Sindhu) the 20th estrapy of the Achaemenian empire, paid a tribute of ivory and yaks wood Gandhāra was in the seventh satraphy It seems that the Achemenides held the Indus basin up to their overthrow by the Macedonians and Alexanders conquest in India did not extend much further than the Persian possessions At Taxila a Persian inscription in Aramic of fifth century B C has been found When Alexander came to Northern India it was divided among various disputed tribes in antagonism with each other Sambos (Sumbha - Mon khmer - Sambara - Sabara - Cimbri) were fighting Mousikanos (Muchukarna) To avenge tribal jealousies, Alexander's army was welcomed by Ambhi (Ambhasthas 7) of Taxila, Sangaeus (Srinjavas 7) of Pushkaravati (Peshwar), Assagetes (Massa Getae) and Sisikottos (Sasi Gupta = Maur = Moor Copts; of the Malakand Alexander met with florce resistance from Assakenians (Asmakas - Asii) Porus (Purus) Malloi (Malla; Muli of Szechwan Vala, Valaya Malaya of Mulitan), Kathians (Kathi) Oxydrakai (Kahudraka) and Mousi kanos, Siboi (Sibi), Abastonoi (Ambastha) Massaga the atronghold of the Assakenians (Tocharian Asii) was stormed with difficulty and when the defenders were treacherously massacred women according to Diodorus, taking the arms of the fallen fought heroically side by side with men. The Assakonian had an army of 20 000 cavalry 30 000 infantry and 30 elephants but when defeated they were given over as a reward of betrayal service by the invaders to Sasi Guptas From Asvaka (Bojaur) Alexander's swellen army entered into Ujjaunka (Swat) the Maurya kingdom of Chandragupta. Here resistance was

stubborn as in Asvaka, and Alexander received a wound in. ankle The Porus (Purus) on the banks of Hydaspes (Jhellum) had resisted the invaders But Alexander built some wooden horses, filled them with gun powder which exploding brought confusion and routs among the elephants and army of Porus The Siboi (Sibi) submitted without much resistance. But the neighbouring Agalassoi resisted and were defeated with great slaughter Malloi (Malla), Oxydrakai (Kshudrakas) and Abastonoi (Ambashthas) dwelling along the Ravi and Beas, Kathawi (Kathi, Catti of Tacitus as a Teutonic tribe) and Sodrai (Sudras) by Northern Sind gave stubborn opposition, but being disunited could not offer any effective resistance against experienced well-disciplined army of Alexander When Alexander entered into the territory of the Kathis and besieged their capital Sangala (Gurudāspur) on the Beas, Alexander heard that there was a revolt in Asvaka (Yuechi = Tocharian = Asii, a blue-eyed tall people in the frescoes of Turfan) and Ujjanaka, and the Macedonian general Philepus was assassinated by the rebels But finding Chandragupta under the guidance of the astute diplomat and organizer Vishingupta of Canaka (hence also called Canakya after his birth place, and also Kutalya after his Gothra Kutala) was assembling a large army of the rebellious Sakas, Yavanas (possibly some discontented deserted Ionian soldiers), Kambhojas, Kiratas (a Mongaloid tribe, Parsikas (Persians) and Bahlikas (M. R. 2, 12), and killed Satiap Nikator, blocked the way in the rear and was even joined by Porus (Parvata), Alexander was forced to return to Susa by way of the Indus The combined army of Maurya (Gk, Morieis) Guptas (Moor Copts Ancient Egyptians called the Copts, Gabt and Gopta Gk ai-Guptios) cleared northern India of Macedonian and allied forces Maurya Guptas were opposed by a coalition of 5 kings, Citravarman of Kulutas (Kulus), Simhanāda or Malayaketu of Malaya (Mallas), Pushkaraksha of Kashmir, Sindusena of Sindhu and Meghakhaya of Parikas (Parsis) Malla army included Khasas, Māgadhad (of Bactriana), Gandhāras, Yavanas, Sakas, Chedis and Huns (M R 5, 22) Then the Maurya and allied army fell upon the tottering Sudra (Chudes) Nanda empire, enfeebled by internecine wars, and the Nandas collapsed The Nandas

]

had absorbed the Vassalı oligarchy of the Lichchavis and Moriyas of Pippalivana. The Moriyas were the kinsmen of the Maurya Guptas. The Moriyas and the allied clans joined the invaders and facilitated the overthrow of the Nandas. Through the machination of Canakya, after Alexanders early death Eudemos was encouraged to declare himself the King and to feel jealous and suspicious of Porus (Parvataka of Mudrarakshasa) and who therefore murdered him (Diodorus 14. 5) Thus with the coronation of Candragupta (822-298 B C) the Maurya Guptas were the masters of northern western and eastern India. Between 312-802 B C Macedonian Seleuous, a general of Alexander brought under his domina nation the territories up to the Indus and Jaxartes In 303 B C Seleuous attacked the Punjab and the Sindhu. Seleucus was defeated and was forced to purchase peace for 500 elephants with Chandra Gupta by ceding him Afghanistan and Beluchistan with his daughter. Thus Mauryas became master of practically the whole of India. Mamulanar an ancient Tamil poet states that the Mauryas with a powerful army including Kasar (Kasa or Khasa) whom they have left behind penetrated as far as Podiyil Hill in the Tinnevelly district It included even Kathiwar for in Saka Satrapa Rudradaman's Girnar inscription it is stated that Rudradaman rebuilt the dams of Sudarsana Lake made by Chandra Gupta Maurya. At Pataliputra pottery with Parsa fire-alter emblazoned on it has been found of Maurya times. A large number of Sāka-dvipi (Maga-Magi) Brahmins and Babans are found in Bihar Baban is a Kurdish (Gadhi) clan (14 E. B Kurdistan) Maurya palaces resemble the Persopolis com plex. In the Manrys period for the first time we find stone sculptures with highly polished surface. The round highly polished monolithic Chunar sandstone Asoke lotus bell edict pillars with elaborate inn and bull capitals are marvels of art and betray foreign imports with historic past as Egypt, not Persepolis. After the domination about a century and a half the Mauryss (325-185 B C) were overthrown by the Yuechi (Tank - Takshaka) Sungas. 10/ Sung Denasty of China) under the leadership of Pushyamitra who was the commander in chief of the last Maurya emperor

nd by killing whom a Pushyamitra occupied the throne. ushyamitras were a Kushan (Tocharian) tribe The Sansritized Pushya Mitra name betrays the worshipers of Tishya Sirius) and Mithia (the winter solstitial sun). During Pushyanitra's time and before him during the reign of some weak Iaurya kings Northern India was menaced by Bactilian Greeks he giammarian Patanjali was a contemporary of Pushyāmitra. He illustrates the present tense in his Mahabhashya = Iha Pushyamitiam Yajoyamah - here we perform the sacrifices by Pashyamitra, Alunad Yavanah Saketam, alunad yavano Jadhyamikam = the Yavanas have besieged Sāketa (Ayodhyā), nd the Yavanas have besieged Madhyamikam (Chitor) It vas possibly Menander, mentioned in Milindapanha as Milinda, contempolary of Nagarjuna, noted for learning and ustice His capital was Sakala (Sialkot) and his coins have been found over an wide territory, extending from Kabulo Mathura, Sind to Barygaza (Broach) After victorious vars with the Maurya partisans in Vidarbha and with the Yavanas, Pushyamitia celebrated a horse sacrifice, in which the iorse was captured by Yavanas under Menandei, likely in the Avavallis, but was rescued by his grandson Vasumtra as neationed in Malavikāgnimitra Demetrius (Dattamitra) is called Yavana suzereign (Yavana-pati of Sauvira Northern 3 and MBh 1,139, 21-23) and in Arachosia known as Demetrius olis Hellenic Euthydemide Ionian Demetrius was an ambinous military genius. He challenged the domination of the Seleukides He became independent He with his brother Apollodotus (Bhogadatta) and his general Menander crossed the Hindukush and the Indus about 183 B C, occupied Taxila and made Pushkalavatı (full of lotuses near Peshwai) his capital where he made his second son Demetrius II the sub-king of Gandhara Demetrius conquered Sind (Pateline) and at Patala built a port Dattamitri There building a navy, Demetrius occupied Sarastos (Surastra) and Sigeralis (Sagar dvipa = Cutch MBh 2,31,66) and made Barygaza (Broach) itscapital and left behind his brother Apollodotus its sub-king His general Menander advancing through the Midland capturing Mathurā, Saketa (Ayodhyā), captured Kusumadvaja (Kusumapura) and scaling the 12 wide mad wall of Pataliputra occupied.

But Menander was forced to abandon it as Demetrius was compelled (166-164 B O) to leave northern India for Bactris which was invaded by Macedonian Eucratides and Menander had to protect Gandhara (Yuga Purana of Gargi Samhita) But Kharvela in his Hattigumpha inscription boasts that being pressed by his army in Magadha Yavanaraja Dimita (a seal of Besnagar mentions Timitra as the name of Demetrius) went off Mathura to relieve his generals Dattamitra became popular with the Buddhists who called him Dhamma mitta for he patronised them, as they were being oppressed by Pushyamitrus who destroyed many Buddhist stupas Eucratides overran Bactria killed Demetrius Eucratides occupied Pushkaldvati But Demetrius II son Demetrius with the assistance of the Parthian Mithradates killed Eucratides As the Greek Euthy demus dynasty was destroyed Menander assumed the role of a king by marrying Agathocleia, a daughter of Demetrius. Though deprived of any help he ruled for nearly 25 years from Mathuri to Gandhara by his mixed army with power and pomp Menander was succeeded by his son Strato I who had a long reign associated at the end with son Strato Menander called himself soter—savior of the Buddhists The Yavanas cultivated friendly relations with the people. They adopted their manners and customs Besnagar inscription states that Heliodorus the son of Diya (Dion) a native of Taxila came as an ambassador from the Maharaja Amtalikta (Antialikidas) successor of Eucratide Heliocles to Rajan Kasiputra Bhigabhadra the protector (tratara) the fifth Sunga ruler of Vidisa who was prospering in the 14th year of his reign and he erected a Garura dvaja pillar in honour of Vasudeva about 90 B C Yavana - Gk Iavon - louna of Danus -Heb Jayana (Yayana) = Hittite Levanna - Bab Iamanu. In Vasik cave inscription and Milandapanha Yonakas used Though Ionokos was unknown in classical Greek it existed in the current Hellenistic Greek of the east as for example the Inoka Polis of Ptolemy After a reign of about 112 years (18573 B C) the Sungas were partially overthrown by kanvas (now represented by Kanbi Kunbi or Kurmi an agricultural tribe of Northern and Western India) Kanvas were trusted military officers of the Sungas. But the last Sunga ruler

Devabluti was a debauch, and in the midst of an amorous revelry, he was deprived of his life by a trusted slave gill of Vasudeva The Kanva Vasudeva thus seized the empty thione But Sunga authority was not entirely destroyed thereby Andhias after destroying the Kinvas and the remains of the Sunga power became the paramount power of Magadhan empire about 28 B C Andras were a Saka tribe and acted as military officers of the Mauryas and were known as Andra-bhrityas Shortly after Asoka's death, when there were succession fends among the Kunala brothers, Kalinga's under Kshemaraja, grandfather of Khaiavela and the Andhias under the leadership of Simuka thiew off the suzerainty of the Mauryas between 240-230 B C In 170 B C Khārvela defied Simuka's son Satakarani, the protector of the west. The Andhia gradually stretched light across the Deccan from sea to sea But Satakarani was checked in his advance by Khāivela of Cheta (Cheti, Chetti = Chedi?) dynasty about 1+8 B C Kharvela of Kalınga also attacked the Pushymitia teiritory of Magadha and and fell upon the army of Menander when he attacked Magadha Gautamiputia Satakarani 174-130 became a great emperor His son Väsishtiputra Pulumāvi (78-148 AD) as a governor of the South made Salivahana era in 78 A D in commemoration of his father's victory over Khakharatas in 78 A D and reconquering lost territories Andhra power lasted till 435 A D with varying fortunes. One branch of the Andhra ruleis was known was Satavāhana (Sālivāhana) It is said that Nagarjuna 140-44 B. C) got gold out of rock (gold mining of Kollar) to replenish the treasury of Sātāvahana (Satakaranı) depleted in building Amaravatı stupa (Nagarjuni konda) Andhras, who were matrilineal in their succession as their name Gautamiputra indicates, were composed of five clans (1) Sātavāhanas (Salivahanas), (2) Cutus, (3) Mudas; (4) Vilivayas (Baleokuros of Ptolemy Velloie was their capital and Valanatha—Vilinātha—was the name of their Siva image), (5) Abhiras (Vāyu P 99, 358) Sālivāhana of Sisuka (Sces) Nāga descent, conquering Vikramāditya of Ujjaini and Kanva Susarman of Magadha became the empeior in 21 B C Vikra-māditya, an Ephthalite=Púr Betala—a mixed Huna Saka tribe, possibly affiliated with Yuechi = Tocharian) usurped the

820

viceroyalty of his brother Bhartihari in conspiracy with his wife. Vikramiditya with the assistance of the Betalas (Ephthaletes Gk Abdeloi) declared independence of the Kanva suzereinty of Bhumimitra and made the Vikrams Era of 57 B C for his victorious achievements. Among the Sakas and Arattas sister's son inherited the kingdoin and sister's husband (called brother) was the chief officer next to the king Parthia was occupied by the Caspian tribe Parthava (Parni) mentioned in the Vedas and inscriptions of Darius. and Pehlevans of the Zoroastrians Parthia became a province of the Achsemenian and then of the Macedonian empire. But the Dahan Scyths under the leadership of Arsaces (Parni) taking advantage of the internecine wars between the Macedonian Eucratides and Hellenic Demetrius conquered Parthia Hyrcania (Hiranya) became the ruling race about 240 B C They became known as Parthians They adopted Zoroastrian Parthian Mithradates I (170-138 B C) conquered eastern Iran, Media invaded Babylonia, Taxila and occupied territories between the Hyaspes and the Indus. Antiochus III in order to consolidate his position against the Parthlans renewed his alliance with Subhagasena (Sophagasenus) of the Kabul valley Saka Manes (Maharaja Moga) overthrowing the Greco Bactrians occupied Kabul valley western Punjab and the Indus He issued the Samvat era in 58 B C was overthrown by Azes possibly as a vicercy of Suren Venones Pehlevans Kaharntas penetrated into the Deccan Gondo phares Gudufara) ruled in Peshwar region about 47 A D and he brought St Thomas from Palestine as a carpenter and was converted by him into Christianity Phraates IV (37 2 A. D.) ruled in Gandhara and Phraates Scion was a viceroy of Taxila and Southern Gandhara of Vardanes I (40 45 A D) After the time of Andhraa king Hala (69 94 A. D.) the coin poser of the erotic poem Saptasataka, Andra dominions were overran by Pohlevans and Kshahartas

Saka (Chinese Sok Gk Sacae-Scyths-Caspian) was a pastoral people living in the region of Kashgar Pressed by Yuechi (they are described having blue eyes a trait of the Aryans-Tochan-Assi-Asyaka) and in alliance with Parthuans they settled about 160 B O in Scistan (Sakastan in

Western Afghanista) and in the Kabul valley (Kapisi). And from Kapisi, Taxila, Western Punjab, Mathura, Malava, Maharastra and Gurjarat. From Seistan, Sakas occupied Sind Patanjalı places Abhiias—an advance guard of the Sakas—in Sindhudesa in the end of the 2nd century B C Mahārastra Sakas belonged to Kshaharata line, their capital was Nasik The Nasik, Kaile Junnar, Pandulena cave inscriptions show that the considerable parts of Mahāiastra were in the possession of Napapana, the Kshatrapa of the Kshahrata (Karatai) Provincial viceroys bore the title of Satrap (Kshatrapa or chhatrapa). In the lover classes of Mahārāstra, Mahar, an Australoid tribe, pre dominates In the middle classes thete is a Caspian tribe, Ratta, known in also as Aratta (MBh Karna P 45) from whom Anarta, Surastra and Mahai-rastra and Reddi in Deccan have been named Rathors and Rastrakutas also derive their name from Rattas. Saka factors predominate in the upper classes The Northern Satraps had their capital at Taxila and at Mathura The Western Satraps at Ullaini and at Nasik Pressed by Parthian Sures Vonones, Saka Mawes conquered Gandhara and Taxila from Menander's son Strato But Mawes could not conquer the Greeks of eastern Punjab Before Mawes conquered Taxila, the Greeks had already lost Mathura and the territory between the Ravi about 90 B C By 60 B C Sakas across Rajputana and Ajmere occupied Mathura under the leadership of Hagamasha and Hagana, their successor Satrap Raguvala issued coins from the mint of Strato The Greeks still held Sakala and the territory between the Jhelum and the Ravi But being pressed by the Sakas from Mathura and Parthia, Azes in the Panjab, the Greeks lost everything and some were killed and others were absorbed in the population The fight for supremacy between the Macedonian Eucratides and Hellenic Demetrius out of rivalry robbed them both of their vast conquests and grand schemes, and ended in their mutual revengeful slaughter, and paved the path of Parthian and Saka expansion and conquests And Traus-Oxania lost vast fertile agricultural areas and a great civilizing influence through the wanton destruction of intricate irrigation works of the Oxus and flourishing Greek and mixed Greek towns by the nomads. The Saka onslaughts gradually destroyed the Andhra empire.

and the Abhiras (Avars) and Kadambas (another Saka tribe) conquered respectively the western and southern portions of the Decean. Saka era of 78 A D commencing at Caitra Sukla possibly was introduced by Chastan of Uljaim. Chashtan ascended the throne in 78 A. D and Saka era was calculated from this regnal year.

Abhiras (Avars) belonged to a closely allied Saka tribe They were the trusted army officers of the Sakas They were located in 7th century B C in Sindhudesa and 6th century B C in Avanti. It is said that Abhiras plundered the carayan of the family members of Yadava Krishna and abducted many of Vrisni women which Arjuna was escorting into Jayapur area By killing the Talajanga Vitihotra ruler commander Abhira Punika placed his son Mahasena Chanda Pradyota a contemporary of Bimbisars Buddha, on the Avanti throne. In retaliation Pradvota s younger brother Kumara Sena was assassinated by the Talajangas in the Mahakala temple while he was occupied in discussing about the ments of offering human sacrifice and selling human flesh (Bana a Harshacarita) Pradyota had two sons-Gopala and Palaka-and a daughter Vasabadatta who eloped with his father's prisoner Udayana of Kausambi and married him In the succession contest between the two brothers Pilaka succeeded in winning the Avanti throne. But Ariaka son of Gopala, with the aid of Abhiras revolted and Abhiras killed Palaka. Taking advantage of this disorder Udayana claimed the Avanta throne on behalf of his wife and secured it During the reign of the king Kshatrapa lord Rudrasimha (181 A. D.) the son of the king the Maha Kshatrapa son of lord Cashtana, the well (vJpi) was caused to be dug and embanked by Senapats (commander in chief) Rudrabhuti son of Bapaka the Ahhira, at the village Rasopadra for the welfare and comfort of all living beings. A Nasik inscription shows that Isvarasena (Isvaradatta 188-190 A D) became Mahakshatrapa of Maharastra and conquered it from the Satayahanas Success. In the ninth year of the king Isvarasena, the Abhira, son of Sivadatta the Abhira by the lay devotee Vishnu Datta, the Sakani, mother of Ganapaka Visyavarma, wife of Ganapaka Rebhila, daughter of Aguinnitra, the cake, for the well being and happiness of all beings in order

to provide medicines for the sick" In the third century the Abhitas were checked by Kadamba ruler Mayursarma about 258 A D This tank is constructed by Mokaii Mayur Sarman of the Kadamba who has defeated Trekuta, Abhiia, Pallava, Pariyatrika, Sakasthana, Sayindikui, and Punāta In the bilingual Paikali inscription of the Persian Narseh in war against Vaihran III in 293 A D he received support from the Sakas and from Abhiran sah (king), one of the Mahakshatrapas ruling over Indian territory of Sakastan, and Varazgarte shah, the king of Abhira' The Abhiras occupied a tract in western Rapputana near Vinasana called Abiria by Periplus According Puranas the Abhiras ruled Avanti (Western Malwa) and Surashtra Pallavas (Pelhevans = Parthians) occupied the Satavahana piovinces of the South The inscriptions found at Mayidavalu in Guntui and Hiladgalli in Bellary of the first Pallava king Siva Skanda Vaiman state that he ruled over Andhrapatha, Satahani Ratha and Kanchi, and performed Asyamedha sacrifice Satavahana Kaundinyas closely related to Chutu Sītakarnı colonized Cambodia and called it Champā, after its people Chām The Chinese called Kaundinyas Kin-lien and contracted peace with them in 138 A. D Kaundinyas were in power up to 248 A D when they were supplanted by Pallavas under the leadership of Bhadravarma who assumed the Pallava title of Dhaima-Mahāiāja The Pallavas assumed the power of the Satavahanas not only in Southern India, but also in their oversea colonies Pallavas also occupied Western Java and Borneo inscriptions of Pulnavarman at Chi-Aluton in about 450 A D mention that his grandfather about 375 A D conquoied it Asvavarman about the same time conquered Borneo as Kaeters inscriptions reveal Relief sculptures of Simhavishnu (575-600 A D) shows him to be tall with wide chests, seated on a chair, wearing trousers and his queens by his side are tall, have fine ellipsoid face and long slender nose, Mohendravarman (600—625 A D) is similarly tall and and his two nude queens are tall figures with refined ellipsoid face, as found is Adivaraha cave temple of Mahābalipui There is a Brahmi inscription of first century A D on a sandstone column in Pahladpur in Ghazipur District in N W P with

Parthman Rapilah - protector of the army of the Parthivas Yuechis are Tocharian Aryans, speaking the centum variety of the Aryan speech. Kanishka statue of the Mathura musuem has the moccasin shoe of snowy countries with upturned toes like the Khattis who also spoke similarly Kiula Kadphises (Kien taieu Kio) united the 5 tribes (called also Yaksha Dynasty in AMM 588) of Yuechi, including the Kushans and Kidar (Kitoto) conquered the Kabul Valley and occurred Taxila, overthrowing the Greco-Bactrians. Kadphises imitated Roman coins and used the titles of Yavuga and Maharaia Rejaturajs (45-85 A. D.) He was succeeded by Hima Kadphises who completed the annexation of Narthern India His conquests opened up the commerce between China the Roman Empire and India. He issued bilingual gold and copper coins with a life like representation of the monarch on the obverse side and Siva worship on the reverse In Kharosthi inscriptions Kadphises II is called the great king king of kings lord of the world Mahisvara, the defender After him Kushan Kantahka became the lord of Kabul, Kashmir and Northern India. His dominions extended from Mathurs to Bukhara Kanishka professed eclectic Buddhism And to propagate this eclectic Buddhism-Mahayana-he convened the fourth Buddhist Council of Jalandham under the presidency of Vasumitra. The interchange of ideas throughout his vast domains brought out an intellectual ferment thus resulting in this change of broader outlook and humanity He made Purushapura (Peshawar) his capital. The last of the Kushans 18 Vasudeva (152-176 A. D) His coins exhibit the figure of Siva with Nandi bull His inscriptions have been only found in the Mathura regions It seems that the Kidaras (another tribe of the Yuechi Tocharis) pushed the Kushans to the Indus and Mathuri regions Kushans encouraged Sanskrit learning They were patrons of art It was a period of great literary activities Asvagosha Nagarjuna and Charaka were patronized by them Vakataka Bharasiva and Naya Nagas belonged to Sees Naga (Saka) tribe. Between the third and the fifth century A D they held dominant positions in upper and central India and in Gangetic Doab Mahesyara Naga, son of Nagabhatta is found in Lahore copper seal insuriptions Chandransa, the second Nakhavant, is likely the Chandra of the Delhi Iron Pillar Inscription Bhava Nāgas (Pravaraa sena) of the Bharāsiva were besprinkled on the forehead with the pure water of Bhagirathi that had been obtained by their Valour which is still commemorated by the Dasasvamedha Ghat of Baranasi where they performed ten (dasa) Asvamedhas (horse sacrifices) Chandragupta II Vikramaditya (385-413 A D.) in order to secure his position sought alliance with the Bhava-nagas (Bharasivas) and asked for the daughter of their king Rudrasena I and married his daughter Kuveranāgā Bhavanāgas governed Gangetic Doab as late as the time of Skanadgupta. The Vakataka, Bharasıva and Navanāgas styled themselves as Dvija Brahmins Possibly Nāgara Brahmins of Guzerat and Bulandshahar (Nagars, Jat Nagres many of whom are now Moslem converts), have been named after them Among the Jats there is a Nagra tribe. As the Nagas were city dwellers for administrative purposes, Nagara—Town has been called after them, and Nagarika a polished dweller of a city in contrast to the uncouth rustic-Gramya (Gawar) Nagara style of architcture consists of a four sided pinacle (Sikhara) on a square body They introduced Nagari script For their foppish style of living and loose sexual morals, a Nagara has become synonymous with a beau Possibly Nagpur was one of their capital towns. Vidisa Nagas trace their descent from Sesha (Sces 110—90 B C) Bhogin (90—80 B C), Rāma Candra (80—50 B C), Dharmavarman (50—40 B C) Vangara (40—30 B C) had Nāga (serpent) symbols on their coins and their architectural monuments Diodorus (Sicilus II) "The Scythians had their first abodes on the Araxes Their origin was from a Virgin born of the earth (Ella=Skt. Ilā, Gk Era=Sax Ertha), of the shape of a woman from the waist upwards, and below a serpent, that Jupiter had by her a son, named Scythes, whose name the nation adopted. Scythes had two sons—Palas and Nap(g)as, who were celebrated for their great actions and who divided the countries. and the nations were called after them Palians (Skt. Pālas), Napians (Nagas) They led their forces as far as the Nile on . Egypt and subdued many nations They enlarged the empire of the Scythians as far as the eastern ocean and to the Caspian

and Lake Mocotis The nation had many kings from whom sprung the Sacans (Sakas) Massa Getae (Jats) Ari Aspians (Asvas of Aria) and many other races They overran (Assyria and Media Interlaced serpentine bodies with pretty female human busts and hooded serpents over the heads are the characteristic sculptural designs. The Gupton were the scions and petty chiefs of the Maurya (Maur - Moor) Guptas (Copts) of Karaskara (Kakar Jats Karkata Naga) Chandragunta I son of Ghatotkacha was Dharana (Dhauri Jat of Amritsar) clan Among Ahirs there is a Moriye clan with peacock totem Chandragupta inherited his wife a possessions by marrying the Lichahavi princess Kumaradevi, Lucchavis were ruling in Nepal (100-50) Tirhut if not in Pataliputra as feudal chiefs of the Kushans In Chandra gupta s com on the obverse there are standing figures of Chandragupts and hisqueen Kumaradevi and on the riverse the figure of Liskshmi with the epithet Lichchavayah. Their son Samudrigupts was adventurous He expanded his kingdom in all directions. He conquered the South and defeated Pallava Vishnugopa of Kanchi, Bhavanagas, Abhiras, Sakas Kushans (Daivaputra shahi shahanu shahi) He in the beginning expanded at the expense of the Varasiva Nagas by defeating the allied armies of Ganapati Naga ruler of Malava (Dharadisa) and Vidisa (Bernr Padmayati its capital) Nagasena of Mathura and Achyuta Nandi of Ahichatra (Ramnagar in Robillhand) Tho Bharasivas of Kantipuri (Kantil near Vindhyachalam where the Vindhyaka ruler Vindyasakti 248-284 A D Vindhyavasmi temple) and the Nava Naga Guhas of Kalinga were also defeated. Karkota Nagas ruled in Muhismati on the Narmada and in Kashmir Karkota Vagara, possibly the capital of the Karkota Nagas is found in Jaipur State (25 iniles east of Tonk. Vindhyasaktı is recorded as a Naga general and he established his kingdom over the territories he conquered. Vakataka rock inscriptions have been found in Ajanta and Ghatatkachs caves in Nachno, Ganj and Durcha stone inscription at Mansar At Nandpur (Mandivardhana Nagardhan) the Vakataka queen Prabhabati Gupta made a copper plate grant. Copper plate inscriptions have been also found at Riddhapur and Champak in Amraoti area at Abandu

Dupia, Seoni, Balaghat, and Jubbulpore Vakataka town sites in . Ramtek area have been found at Ghughusgarh, Bhegart, Mansar and Khensi Possibly Pavnai in Waidha District is Pravarapur, founded by Pravarasena I The Vakatakas favoured Salvaism And eight stone lingus, about 5 feet high with a nounded upper part of 1 and 12 feet have been found at Mansar, a similar one at Khindsi and another at Nandpur Vakataka carved stone fragments show the Vakutakas with mesocephalic head with long combed hair, high-bridged prominent long thin nose, long brows, shaven oval face but somewhat think lips and gazelle eyes Murundas established diplomatic relation with Samudra. His eldest sonRāma reigned only for a few years. In an expedition against was accompanied by his wife Dhruva he Svāmini who fell into the hands of the enemies. disgraceful cowardice, he was killed by his younger brother who occupied the throne under the name of Chandragupta II. the disguise of his mistress Chandra Gupta secretly entered Shaha's private bed chamber, killed Kushan 1escued Dhruva Devi and mairied her, he also married Kuveranāgā, the daughter of Vakataka Maharaja Rudrasena I Prabhavati was the daughter of this union and she was given in marriage to her maternal uncle Maharaja Rudrasena II, son of Prithivisena Though Pataliputra was the capital of his ancestors, after conquering Malava, Saurastra and in alliance with Vakataka Nagas Chandiagupta made Ullain his second capital He assumed the title of Sakari Vikramaditva He was a Vaishnava He was a pation of learning Ratnas (nine jewells) of literature and arts, including Kalidasa. possibly decorated his court at Ujjain His successor Kumaiagupta was his son with his union with his brother's wife Dhruva Devi Maukharis claimed descent from Asvapati Asvapati was the title of the Madra (Manda) kings Maukharis were in matrimonial alliance with their allied kinsmen Pushpabhuti Vardhans Maukhanes were mixed Murunda (Manda) Sakas A seal with the inscription Mokhalinam has been discovered in a script of Asokan period The Maukharis rose in power in Jawnpur and Gaya areas, sometimes as allies and at other times as rivals of the Guptas The Maukharies had Varman as their

title. Their fourth and fifth king Isanavarinan and Sarvavarman assumed the title of Maharajadhiraja. Their last king Graha Varman of Kanauj who had married talented and highly gritted pretty Rijyasri daughter of Prabhakaravardhan of Thaneswar and sister of Harsa, was treacherously killed in a war by Malava king Madhava Gupta and his crafty ally Sasanka Narendra Gupta of Karna Suvarna (Murahidabad area), Madhava Gupta occupied Kanau; and imprisoned Rajyaari like a brigand s wife with a pair of iron fetters kissing her feet possibly because the proud princess refused to entertain the victor with her physical charms Moreover Midhava Gupta was enamoured of Rajyasri for Midhava Gupta and his brother Kumdra Gupta were brought up together with her as hostages by her father Prabhakara Vardhana after his conquest of Malaya. The mighty Gupta Empire about 450 A D., a few years before the death of Kumara Gupta was terribly shaken by the invasion of Pushyamitrasa Lattle Kushan tribe. Kumar's son Skanda Gupta drove back the Pushyamitras with great difficulty But about 458 A.D the HUMAS (Hinng nu, Hoa, Hoatan - mixed Alpines possibly mixed with Yuechi, in alliance with Gujar (Khazars-Kazaks (rider) from which Cossack has been derived = Qajar - Kirghiz - Alpines) attacked the northern territories of Skandagupta overcoming the Sassanians (sastra - sasana - administrative orders) of Iran and Kushans of Kabul. The Sassanians were of Kushan origin The come struck by viceroys in Balkh Mery and later by provincial governors bear the title of the king of the hushans In the first century A. D the Chinese drove the Hinng nu westward. One division of the Hunas (Huns - Hiung nu) occupied Trans-Oxania. The other division pushed further west and occupied southern Urals. From this region the Huns invaded Europo. And in the nnth century A. D. from the Don basin the Huns (Magyars) pished to the Danube basin, settled there and called it Hun gary Skandagupta drove back the Huna hordes. Skandagupta s empire still extended from Surastra (Kathiwar) to Sravasti For we find that Skandagupta's viceroy Parmadatta rebuilt the embankment of a lake near the Girnar Hill which had burst and erected a temple of Vishnu in 458 A.D Paramartha in his life of Vasubandhu & Buddhist author of sixth century A D mentions that Vikramaditya of Ayodhya (according to Hissa

Tsung of Sravasti, Skandagupta assumed the title of Vikramaditya like his grandfather Chandragupta II and removed his capital to Ayodhya), a liberal patron of Samkhya philosophy, was induced by Vasubandhu of Pushkaravati to accept the docrines of tolerant Buddhism. But about 465 AD the Hunas overcoming the resistance of the Sassanians overthrew the Kushans of Kabul and Gandhara and attacked northern India. By the terrible onslaughts of the Hunas and Gujars the mighty Gupta

empire reeled, fell and were shattered into pieces

The Huns completely overcame the resistance of the Sassanians (of Kushan descent) in 484 AD When they defeated and routed their army and killed their king Furuz, the Iranians remained under Huna domination until 577 A D when Chosroes Anushiswan destroyed their power with the assistance of Turks, also mixed Alpines like the Huns Huna hordes in large numbers destroyed the Kushan power in Kabul, overwhelmed Gandhaia, and poured into India The Huna leader Toramana occupied Malava in 500 A D and styled himself as Mahārājas Toramāna's son Mihirgula (510-540 AD) made Sākala (Sialkot) his capital in India, while the headquarters of the Huns were at Bamian and Balkh Yasadharman Vishnuvardhana of Karkota Naga descent of Thaneswar whose kingdom was conquered by the Huns rose in rebellion in alliance with other ruling chiefs, Gupta scion Bālāditya of Magadha and Maukharies, gave a crushing defeat to Mihirgula's army about 530 A D Mihirgula however forced out of India seized the kingdom of Kashmii which he ruled upto 540 A D when he died. Soon after his death the . Huna empire collapsed being defeated by the Turks in Tran in 557 AD However the Huna and Gujar (Khazar = Gurjara) chiefs formed petty states and ruled Northern and Western India for a long time and penetrated far and wide The Hunas established Gurjara kingdoms of Bharoch (Broach) and Bhimal in Rajputana and Chalukya (Solanki related to Chopas, a Gurjara tribe; Pur Siluka, according to some Macedonian Seleukides = Calukya) of Vitapi Mitrakas of Valabhi and Vardhanas of Puspabhuti dynasty of Thaneswar were of Karkota Nāga origin and they in alliance with Maukharies fought against the Hunas Maukhari Isvara Varman (550-554) defeating Yasadharmana became emperor But a successor of Yasadharman Vishnu

Vardhana, Prabhakara Vardhana of Thanesyara the son of a Gupta princess a petty ruler aggrandized himself by successful wars with the neighboring princes-Guptas of Malava, the Hunas of the Punjab and Gurjars of Rajputana. In 604 A.D. Prabhikara Vardhana sent his eldest youthful son Rajya Var dhana to attack the Hunas in the Punjab frontier While his vounger brother Harsa was in a hunting trip he heard the news that Prabhakar had become auddenly dangerously ill. Harsha hastened to his father's bed side but found him already dead A court clique favoured the nomination of Harsha as the successor of Prabhakar but the victorious return of Raivavardhana at the head of a large army silenced the clique and Rayvayardhan was crowned as king But soon after his ascension to the throne Raivavardhana learnt that his sister Raivasri s husband Graha Varman Vaukhari of Kanauj was treacherously killed by Malava king Madhaya Gupta in alliance with Sasanka of Karna Suvarna during the invasion of Kanauj by them and Rajyasri was impri soned by them. Harsha ascended the throne drove out the Malava and Gaura army rescued his youthful highly gifted pretty sister Rajvaari who was about to commit suicide out of impotent rage. Harsha conquered Northern India transferred his capitat from Thaneswar to Kanaul His empire extended from Narmada in the South to the Himalayas in the North from Saurastra in the West to Kamarupa in the East. He attempted to extend his frontier in the south at the cost of the Chalukyas (Gurjara Solanki), but Pulakesin II proved to be too powerful and Nar made was fixed as the boundary between the two kingdoms. In 620 Dhruvabhata nephew and successor of Siladitya Dharma ditya of Valabhi as an ally of Chalukjas fought against Harsha but was defeated sued for the daughter of Harsha As a son in law of Hursha Valabhi became a vassal state. And Hiuen Tsung mentions that when Harsha held state councils. Dhruvabhata attended it as a feudatory chief of his father in law Harsha was a powerful and enlightened ruler and administrator as described by Hiuen Tsung the Chinese pilgrim who was patronized by him and intimately associated with him. The famous Sanskrit dramas-Ratnavali, Priyadaruka and Nagananda-are ascribed to Harsha's authorship Bana who lived in his court also has left behind a biography of his patron-Harsha Charita., Harsha

sent an embassy to China in 641 A D which returned in 643 with a Chinese Legation which remained in India upto 645 A.D Wang-Hinen-tse who had been a commander of the earlier delegation headed a new embassy in 649 and before the envoys reached Magadha in 648 A D Haisha had died, and the country was plunged in disorder Arjuna, minister of Harsha, usurped the throne The Chinese, envoys were plundered and many of their members were killed Somehow Wang-Hruen-tse and his principal colleague managed to escape to Nepal The Tibetan rulei Srong-Tsan Gampo who had married a Chinese princess and through whose influence he became a Buddhist gave a thousand horsemen to avenge this insult to the eminent Chinese guests and asked the Nepal ruler whose daughter Bhrikuti he had married in 641 to reinforce the army Nepal contributed a contingent of seven thousand armed men With this army Wang-Hiuen Tse descended into the plains, stormed the frontier fortress of Tirhut and annexed it to Tibetan empire Arjuna fled, but came back with a reenforced army, was defeated and was taken as a prisoner to China 580 walled towns submitted Bhaskara Varman, Harsa'a vassal king and ally, made a present of an abundant supply of cattle and horses to the victorious army Wang Hiuen Tse visited the scene of his adventures in 657 A D being sent by the Chinese emperor to offer robes at Budhist viharas He entered India by Nepal and visited Vaisali and Budha Gaya and other viharas and returned home through, Kapisa (Northern Afghanistan), Bamian, and Pamir route

The Turks replaced the Hung-nu (Hun) tubes in the domination of the vast territory, from the Trans-Caspian to the Indus—(according to the Chinese from Kashgaria to Gāndhāra, Kashmu (Kipin) and Pushkaravati (Peshwar). In 630 A D on his way to India Hiuen Tsung's safety up to Kāpisa (Kabul River legion) was granted by a passport issued by the Kazan (Tong-shehu), the sovereign of the Western Turks Soon after Tai-Tsung of the Tang dynasty vanquished the Northein Turks between 640-8 A D, occupied Turfan, Kaia shai and Kuchā Emperoi Tai-Tsung's daughter was secured in mairiage by the Tibetan ruler in 641 A D and who had founded Lhāsā in, 639, and introduced Buddhism in the

country, being influenced by his wife But when Gampo died in 550 A. D Tibet began to assert her independence Kaotsung (650-88), successor of Tai tsung, conquered the Western Turks and annexed their territories in 659 In 661-695 A D the Chinese empire extended from Kashmir (Kipin) and Udayana (Swat valley) to Korea. In 670 Tibetana revolted and conquered Kashgaria which remained in their hands until 692 when it again fell into the hands of the Chinese This gave the Turks a great opportunity to reassert some local influence Between 665 and 715 the Chinese domination in the territories between Syr Dariya and the Indus was weakened as the southern route through Kashgaria was closed by the Tibetans and the roads over the Hindukush were blocked by the con quest of Arab Kotaiba who with fire, sword plunder and rapine was spreading Islam in Central Asia. In 713 emperor Higen Tsung forced open the Pamir Passes against the efforts of the Arabs and Tibetans who sometimes rendered mutual aid 719 Samarkand and Khotan, threatened by Islam, sought the Chinese aid Udayana (Swat) Khottal (Western Badakshan) Chitral, Yasın Zabulıstan (Ghaznı), Kapısa (Kabul Territory) and Kashmir fought heroically against the inroads of Islam, being encouraged by the Chinese who conferred on their chiefs the title of kings. Chandrapira of Kashmir in 720 and his brother Muktapida Lalitaditya of Karkotaka Naga (Saka) dynasty in 738 received from the Chinese emperor the investiture as king But in 761 the Arabe with the hasistance of the Turkish Karluk tribes gave a crushing defeat to the Chinese army un der the general Sienchi. The Chinese prisoners introduced the art of paper-making in Samarkand from which the Arabs spread it to Europe. Yasavarman of Vandir Audh dynasty the maternal cousin and successor of Harshavardhana of Kanau, had diplomatic relations with the emperor of China to whose court in 731 A. D he sent an embassy In alliance with Lightaditys of Kashmir he led an expedition against the Tibetans and blocked the mountain passes of that country, thus making a genuine common cause with the Chinese who were then in hostility with Tibet. Bhavabhuti the famous dramatist of Malati Madhava lived in his court. Vaknati is his Gaura vaha has described Yasavarman's conquest of verdant Bengal

But Lalitadityā (724-760 A. D) envious of his ally and knowing the weakness of his army attacked Yasavarman's dominions and after protracted struggles Yasavarman was defeated and killed With the defeat and death of Yasavarman, not only Kanauj became incorporated in the empire of Kashmir, but Lalitaditya acquired the right of suzeiainty over the vast conquests of his former ally To assert this light he marched towards the east and overran Magadha, Gaura, Vanga, Kalinga and Kāmrupa. In the west he conquered Malwa and Guzerat In the North-Western frontier he defeated the Dards (Darada a mixed Alpine) Kambojas (Caspians) and Turks (mixed a mixed Alpine). Kambojas (Caspians) and Turks (mixed Alpines) The Arabs' thirst for spoils and proselytism became whetted by their unparalleled successes. They overran the Sassanian empire by 650 as it was exhausted by a hundred years war with Rome which began in 526. Zoroastrianism the pride and glory of the Parsas was humbled to the dust Persia became Islamized on pain of death. Only a few adventurous Zoroastrians could flee from the beloved land of their ancestors to Western Index for political and religious severy. The Zoroastrians could flee from the beloved land of their ancestors to Western India for political and religious asylum. The battle of Kadisiya on the Euphiates canal in 637 decided the fate of the Sassanian empire and every province of it from the Tigris to the Oxus fell into the hands of the Arabs by 650 Syria had fallen in battle on the Yaimuk, and in 639, the Arabs were masters over Egypt. In 664 the Arabs invaded Kabul and made its Tocharian Shahi king tributory and forced 1200 persons to accept Islam. It is likely that from Kabul an expeditionary force under Mohalik explored the Indus and carried some captives from Multan. Caliph. Omai sent an expedition to Sind in 637, but it was a failure. Md bin Kasin with a disciplined aimy of 6000 troops attacked. Sind in 712 Many of the Jats (Getæ) and Meds. (Mands—Cimmeri) of Western. Sind. joined the invading army, for Dahir, the ruler of Sind being a Saka Buddhist, antagonized the Jats And the Arabs. were aided in their conquest of Sind by Balhara. Balhara is the corrupt from of Vallabha (Beloved) which was the epithet of Rastrakuta (Ratta—Aratta—Saka among whom sister's son inherited property) kings, in order to defeat the Gurjaras who were in control of Western. Sind. and Rajputana and who opposed stubbornly the Arab invasion and

Rastrakuta aggressions Arab and Islamic aggressions were also encouraged by mutually antagonistic policies and suicidal rivalries of petty states into which Northern India was split up after the downfall of the Gupta empire through the mighty impact of the Huna advances There was no central govern ment nor any national sense of common ideal or motive Varraudha, son of Kamalaudha Yasavarman of Kanau asserted his independence of Kashmiri imperialism Jaypira (772-802) grandson of Lalitaditya marched to the south to suppress the revolt of Vajraudha. Vajraudha was defeated But during his absence Kashmir throne was occupied by his brother in law Japa Taking advantage of this, Indraudha, son of Vajraudha, revolted but Indraudha was defeated and his brother Chaken udha was placed on the Kanan throne. Indraudha begged the military aid in 783 of Gurjara Pratihara king Vatsa of Villa mal (in Rainutana) Vatsa attacked Kanyakubia defeated Chakraudha and reinstated Indraudha on the Kanauj throne and advanced towards Bengal. But Gurjara overlord Vatsa s advances were not only checked by the combined arms of Dharmapa' (791 811) of Bengal and Rastrakuta king Dhurva Dhravarsa (783 774) but was also forced to flee to the Rai putana desert Pals of Bengal were of Kamboia origin (Raiva palls in his Irda copper plate calls himself as Kainboja vaima tilaka—Glory of the Kainboja tribe) They were powerful kings with great organizing capacity They professed Buddhism in religion their government was highly centralized, Dedda Devi (which reminds the Kashmir queen Diddl a Shahi princess who combined love and politics in her administritive affairs) daughter of Bhadra (Jyestha Bhadra a feudatory of Bhaskara Varnam) was married to Gopala assuer of hundred commands (Kalimpar Grant of Dharmapila) Ristrakutas and Pals defeated Indraudha and placed on Kansuj throne their protegee the subservient Chakraudha. Gurjara lord Valabhatta II, son of Vataarāja organized the Gurjaraa into a might force the conquered martha Malaya Mataya Turushka (Turks) Kirats (Nopal) fell upon hanyahubia defeated foudatary Chakraudha and anade Kanauj his capital Najabbatas successor was possibly Rimabbadra (83) 840) whose progress was checked by Devapal of Bengal and his maternal uncto the

Rastiakuta Govinda III. His son and successor was Mihira Rastiakuta Govinda III. His son and successor was Mihira Bhojā (840-90) who styled himself as Adi Varaha (the original Boar), the incarnation of Vishnu. Bhoja's empire extended from the borders of Bengal to Sutlej, from Kathiwar to the Himalayas, including in it most of Rajputana Bhoja's son Mahendrapāla (890-908 A D), the patron and pupil of the poet and dramatist Rājasekhara of Kārpura-manyari fame, ruled his father's vast empire except the Punjab and the Indus valley with great statesmanship, fostering arts and literature Mahendrapāla was succeeded by his son Bhoja II who ruled only for three years. He was succeeded by his balfruled only for three years He was succeeded by his half-brother Mahipāla (910-40) who was defeated by Rastrakuta king Indra III in 916 and even Kanauj was captured Though Mahipala with the aid of the Chandel king Harsha succeeded in recapturing Kanauj, but the outlying provinces Malava and Surastra were lost and could not be recovered from the Rastrakutas. His son Devapāla (.40-55) was forced to cede Guzeiat The establishment of the Solanki (Chalukya) kingdom of Anihil-The establishment of the Solanki (Chalukya) kingdom of Anihil-wara in Gujrat by Mularāja in 961 shows that the Guijaia Piatihaias lost control over it. When his giandson Rajyapala was on the thione, Kanauj was invaded by Tuiki Mahmud of Ghazni in 1014. Finding resistance ineffective Rajyapala surrendered to the invader. For this cowardly and unpatriotic act, he was ignominiously beheaded by Vidyadhaia, son of Chandel king Ganda (Khond). Mahmud came in 1017 to punish Ganda. Kanauj was plundered and levelled to the ground. Ganda fled, but was forced to surrounder the temple fortress of Kalinjan, to the hated invader in 1018 A D After the Kushan Shahis lost Kabul (661-831) they established their capital at Udhbhandpur (Und), 16 miles off from Attock Sankar Varman (883-912) of Kashmir waged war against Lalliya Shahi of Udhandapur, but could not subdue him, as he got military and from Gurjara ruler. Alkhan Gopāla Varman married Diddā, grand-daughter of Bhima Shahi of Udbhandpur Bhima Shahi established a Vishnu temple—Bhima Kesaba—during the reign of Kshema Gupta Diddā had great executive and administrative ability with statesmanly sagacity and talents though her sexual morals were rather unconventional

Kanaul came under the possession of the Gahaiwai clan of

the Rathors (Rastrakutas-Ratti-Reddi-Aratta Caspian) The founder of this dynasty is Chandradeva whose possession extended from Kauanj to Baranası and Ayodhya. His grandson Govindachandra (1114 54) was an able ruler His grandson Javachandra has played a tragic drama in Indian history Jaya chandra after the Saka fashion performed Asyamedha Yains in 1175 which was not attended by many Raiputs who were more or less of Gurjara and Huna descent, This was followed by Jayachandra's daughter Samyukta's Svayambara marriage Here also Prithiviraj powerful ruler of Syambhar (Sakamban) and Almere though of Saka descent, out of rivalry did not attend though he was in the town and was represented by a statue But Prithiviral was the hero of Samyukti a heart and she placed the nuptial wreath round his statue. Prithiviral managed however to elope Samyukti under the cover of dark-This caused bitter feelings between the Rathors and the Chahumanas (Chauhan) to which clan Prithiviral belonged Vigraharaia (Vigaldeo) of Chahumana clan of Sambhar and Aimere in the middle of 12th century conquered Delhi from Tomaras-a Kushan clan The Tomaras built Delhi in 903 A. D where Kutab mosque now stands. The Tomara chief Anangapala built there the Red Fort and the temples out of the materials of which Kutab Mosque has been reconstructed, The Iron Pillar of Vakataka king Chandra erected at Mathura was removed and set up at Kutab by a Anangapala in 1052 A. D Six polished marble slabs with Sanskrit and Prakrit inscriptions of a drams-Harakalı nataka composed by Vigraharaja another composed in his honour-Lulita Vigrah Raja Nataka have been found at Ajmere This literary emperor builder was ancceeded by his son Somesvara; Prithiviral the lord of Dolhi Aimere, and Sambhar the conqueror of Chandel king Parmal, the bold lover of Samyukts the gallant defender of his country against the Moslem invaders the hero of hundred tales was Mahammad Ghori with his Turkish army, the master of the great parts of the Punjab directed his attack upon Delhi and marched towards the plains of Panipat All the Gurjar states came to the help of Prithivi Raj but the Rastrakutas and especially its northern chief Rathor Jaychandra of Kanauj not only remained indifferent but even helped the invaders.

The Rastrakuta policy had been always to antagonize Gurjars and for that purpose even helped the invaders. In 1194 Turkish Md Ghazni directed his invasion against Kanauj, the kingdom of his former ally Rathor Javachandra. As Rastrakutas had always helped the invaders and antagonized the Gurjars. and Jayachandra particularly had proved to be a traitor to the national cause, Guriars remained indifferent Jaychandra met the invading army near Etwah. Though the Rathors fought bravely, they were overpowered. Thus through mutual jealous, and lack of co operative spirit the entire territory from Gandhara to Baranasi passed into the hands of the Turks. The majority of the Gaharwar clan of the Rathor migrated to the arid area of Raiputana and founded there the state of Rathor' The Paramaras (Pawars) of Malava were of Guriara They migrated to this territory from Mt Abu region Krishnaiaia founded in ninth century the Paramara dynasty This dynasty has been noted for its patronage of arts and literature and for Sanskrit learning. Its seventh king Munja was hunself a poet and patronized the poets Dhananjaya and his brother Dhanika who were his court poets Bhoja, the nephew of Munja, ascended the throne in 1018 in 1018 and reigned for 40 years, fostering acts and literature. still a popular legendary hero. Though his valiant resistance against the Turks is often forgotten, he is still remembered not only as an enlightened pation of learning, but many books of astronomy, engineering and poetry are ascribed to him. He built the great Bhojpur Lake, covering an area of 250 square miles in southeast of Bhopal He established a large Sanskrit college within the precinct of the Saiasvati temple of Dhara which has now been reconstructed into a Mosque But Kalachuri (Abhira) king Karnadeva (1041-1012) and Solanki Bhimā of Anahilwara and Chalukya Somesvara I of Kalyana jointly waged war against the learned king Bhoja in 1060 and brought the ruin of the famous dynasty However Karnadeva had to repent ere long for his folly. Kainadeva was defeated by Kiitivarman Chandel (1042-1100) In the introduction of Krishnamisra's Prabodha Chandraudaya it is mentioned that it was staged to entertain Kritiivarman's commander Gopāla to celebiate his 22

victory over Kalachuri Chedi Karna. And this victory was facilitated by the fact that Udayaditya, son of learned Paramara king Bhoja, revolted and recovered parts of his ancestral possess ions from Karna according to his Udepur inscription of 1080 And Vikramaditya VI (Vikramanka), son of Chalukya Somes vara Ahavamalia of Kalyana fell upon the army of Karna drove his commander in chief Vajravarman southeast of Bengal attacked northern Bengal which is depicted in Vilhana Vikramanka Charita Samanta Sen a Hoyaala chief of similar (Chalukva) origin, came as a military commander of this Karnata army and ruled as a governor at Rarh. Vigrahapal had three sons-Mahipal through Chedi king Karna's daughter Jauvanasri, and Surapal and Rampal through a Rastrakuta princess. Jatavarman who married Mahipals a mother's sister Vergers and who was kept as a governor of Vanga by his father in law Karna helped his wife s sister a son and defeated the Kaivarta rebel Divya, Govardhana (ruler of Kusumba in Rajahai) and the king of Kamarupa and became the defacto ruler of Gaura, according to Velab (in Dacca) inscription of Bhojavarman, his grandson But Vajravarman a son Jätävarman did not live long, and was succeeded by his son Harivarman But Mahipal II and his protege Harivarman could not enjoy the sovereignty of Gaur unmolested for long According to the Nagpur inscription of Lakshmanadeva, Naravarman and Jagata Vijaya Malla, their father Paramara Udayaditya son of Bhoia, revolted against Karna s suzerainty in Malaya and assor ted its independence Desiring elephants they advanced towards Gaur defeated Hari (Varman) entered into Gaur capital where they found its ruler terrified, and the kings of Anga and Ralinga submitted to them. Taking advantage of this confused state of things Bhima, son of Rudraka brother of Kaivarta rebel Divya, lorded over Varendra (northern Bengal) and defeated Vigrahapal who in utter helplessness became a monk But when his identity was found out later he was murdered by his step-brother Rampal. Bastrakuta forces, led by Mahadeva and Sivarajadeva, the maternal uncle and maternal cousin of Hari Pal and Rampal intervened on their behalf and installed Harr Pal on the throne. The army of Paramara Udayaditya s sons of Malaya drove Harryarman towards Kalinga where he ruled

for many years, possibly as vassals (1076-1147) of Chola (originated from E Chālukyas) Ganga dynasty and built many temples at Bhuvaneswar Simalavarman, brother of Harivarman and grandson of Kalachuri Chedi Karna, instead of opposing the Malava army led by Udayadıtya's sons, rather concluded peace with them and mairied Paramaia princess Trailakya Sundarı (Mālavya devi), daughter of Udayāditya's son Jagat Vijaya Malla. But Samalayarman inspite of the assistance of the Paramara forces could not retain his authority as the ruler of Gaur for long, due to the pressure of Rastrakutas, the adherents of the Pals and the Kaivaitas of Varendra Samala-Varman in order to strengthen his position went to his ancestral place Simhapui and married Sudakshinā, the granddaughter of Harihaia (988) of Seodeni where he ruled as an inscription shows as a vassal of Chandra Deva of Rathor (Rāstrakuta) Gahādval dynasty of Kanauj whose authority extended over Delhi territory, Ayodhya and Baranası At the time of Sāmalavarman, Chandra's grandson Govindachandra (1114-1154) ruled at Kanaul. Samalavarman brought some Brahmins from Kānauj and from Karnāvati (Barānasi was called Karnāvatı from the overlordship of his meternal uncle Karna where Karna's grandson Gayakarna still ruled) to make some auspicious sacrifices on his behalf. These Brahmins are known as Pācchātya Vaidikas Sāmala Varman also granted some land to goddess Prāgnāpiramitā It is also likely that he brought some valuant grandsons of Chandra of Gahadval Rathors from Kanaul and settled them in deltaic east Bengal and called it Chandradvipa after them Three copper inscriptions of Srichandra, grandson of Suvarna Chandra, have been discovered One says that Suvarna Chandra son of Trailakya Chandra, having royal ancestry on both sides, inheriting the kingdom of Harikela, became the king of Chandra-dvipa But the confederacy of Rampal succeeded to crush the Kaivarta rebellion. By this victory and the pressure of Hoysala Chalukya Senas, Sāmalavarman was forced to move to Eastern Bengal where at Vikrampur he established his capital; he was succeeded by his son Bhojavarman Bhojavarman or his son was compelled to submit to Rāmapal as Rāma Charata (3, 44) says that a Varman ruler of eastern province solicited the

protection of Rampal by presenting him with elephants and chariots for his own safety

Haysala Ballals came as military governors of Chalukya Vikramaditya VI. Ballal is the designation of Billava (Tulava) chiefs. Billavas were bow men But they had the designation of Baidya (physician) as they were toddy trappers. Syana Baidya found in a palm forest a Joti Brahmin maid. He reacued her and had her (Deyl Baldyedi) married to his nephew Sayana Baidya Sayana Baidya a descendants were known both as Baidyas and Pujaris (priests; Seletore Ancient Karnataka) Ballal decendants called themselves Brhama Rshatriyas possibly after the descendants of Sayana Baidyas. In Bengal Baidyas are generally physicians like the Billavas and have usually the title of Sena. Ballal was succeeded by his son Lakshman Sen Lakshman's inscription discovered at Madai nagar says that his mother Rama Devi was a Chalukya princess Lakshman Sen brought under his possession Magadha at the end of his era, as Lakshman Era is found to have been used in two inscriptions of Asoka Challa (1170 A D) of Sapada and that of his brother Dasaratha in 1198 that has been discovered in Bodh Gaya though parts of Magadha still remained under the domination of Govinda Pal of Pals dynasty The two inscriptions of Kesava Sen and Visvarupa Sen sons Inkshman Sen, discovered at Madanpara (Kotwalipara) show that Lakshman Sen orected Pillars of Victory in Baranasi and Prayage and at Jagannatha's place (Puri) on the Southern Sea. Though Lagshman Son succeeded to conquer parts of Magadha and Variance from Gahadval (Rathor) Javachandra of Kanaus it was only for a short while Kutabaddin crossed the Yamuna in 1184 and united with 50 000 well-disciplined well armed and heavily mailed Turkish army of Md Ghori advanced towards Baranasi where only after a severe sanguinary war could defeat its king Jayachandra, whose inscription dated between 1183-1192 has been found at Bodh Gays.

12 Chiefs (Bara Bhuyas) of Bengal Lavo stubborn resistance to the Turkish Afghan and Moghul armics in Bengal They were generally Kāyasthas. Kāyasthas of Bengal have Alpine factors in them That might have been derived from the Ballal Senas who were Chalukyas (Solanki a Gurjara tribe)

and from the Huna settlements or from both, all leptorrhine brachycephalic mixed Alpines. Khajais settled in the southern Caspian area. And the Qajar dynasty ruled Iran till recently with Teheran as their capital. Many of the Rajputs are of Gurjara (Khajai) descent as Pawais (Paramars), Parihara (Pratihāra), Solanki (Chalukya = Chalkya), Chahamana (Chauhan) is of Saka origin, Rathors (Rastiakutas = Ratta, Aratta, Reddi) is Caspian, Hunas are also included among the Rajputs. For their indomitable courage and heroic resistance in the cause of their liberty and fieedoni against the Moslem aggressions, the Rajputs have giorified medieval history, otherwise a dark period for cultural achievements. No doubt Käyastha has been derived from Kathi, a Saka tribe. And Sakasena is mentioned as one of their progenitors. But Bengal Kayasthas have surnames like the Nagara Biahmins (Naga = Huangnu) of Gujarat who are chiefly Alpines, though Nagia was a Saka tribe (Nagre Jats, Nagārs) The following 13 surnames of Nāgara Brahmins of 1226 A.D resemble closely the surnames of Bengali Kayasthas Datta-Guptau Nanda Ghosau Sarmā Dasau, Varmā Nāga Datta Trata Bhutau Mitra Devau Bhavau Mahabhuti Varman in 53 A. D brought to Assam Nāgaia Brahmins with their tutelary Hatakesvara Siva lingam In the Nidhanpur inscription of Bhāskaravarman (610 A D) of Kāmarupa we find surnames of these Brahman donees as Adya, Kirti, Kunda, Ghosa, Datta, Dāma, Dāsa, Dhara, Nandi, Nāga, Pātra, Pālu, Pālita, Prava, Bhuti, Mitra, Bardhan, Vasu, Sena, Soma, Bara. In the Tripuia inscription of Lokanatha Nripa (663 A D) the surnames of Brahman donees are Deva, Dāsa, Datta, Nandı, Soma, Chandra, Dāma, Ghosa Bhutı, Rudıa, Mıtra, Bhadra, Vappa, Gopa, Basu In the Neulpur copper plate inscription of king Subhakaia Deva of Orissa of 8th century A. D the following surnames of Brahman donees are found—Deva, Kara, Chandra, Pala, Bhuti, Naga, Bardhana, Ghose, Kundu, Basu, and Dhara Bengali Brahmins, Kayastha and Nagara Brahmins show almost equally brachycephalic heads and leptorrhine nose (about 65 p. c) Pals having originated from Kambojas were deptorrhine dolichocephals Varmans like Kalachuri Chedi Karna were of Abhira descent, therefore similarly deptorrhine dolichocephals, originally Rästrakutas (Rathors) were also the

same. Sammada are called Mina (Mene = Manu = a Mediterra neon tribe in Rajputana) Rajputrah, the joint composers of Rv 8, 56(67) Possibly from this Mina Rajaputrah the name of Raiputs has been derived. Bene Israel are the Babylonian captive Jews who came to Navagaon (Bombay) in sixth century A. D Cochin Jews came perhaps in 490 A. D as the date is inscribed on a copper plate grant of Oranganore. It is also said that Romans transplanted a Jewish colony in 2nd century A D for commercial purposes 4 Jews joined them from Amsterdam in 1685 Syrian Christians are similar in appearance to the Nayars. It is said that Furthus Thomas Cana, a Nestorian merchant. arrived at Cranganore in 8th or 9th century with 400 Christians from Bagdad and Jerusalem. Thomas married two wives a Navar and Mukhuvan they received grants to be merchants of Kerala Karhada or Karhata is the clan name of Saka Nahapana (78-120 A D) who conquered Malava, Konkan 8 Decoan The Gurjars pressed in N India and Sind by Turks migrated to Konkan Ratnagiri coast in 7th century A D Both these tribes are mixed Some Karadas migrated to Chiplum from whom Chitpavans have originated They are generally fair, handsome with greenish gray eyes. They contributed majority of the Peshwas. Parsis to a certain extent have been mixed with the Bhils In the beginning of the Moslem conquest the majority of

In the beginning of the Moslem conquest the majority of the conquering hordes, particularly the nobles, were Turkish (mixed Alpines) Firuz Shaha Taglug was the first monarch who extended his favours to the Afghans. The Mongol invasions introduced a small element of Mongols. Alauddin Khali mas sacred majority of them on the rebollion of some of them in Gujrat. Tughlugs were a mixed breed of Turks with the Jats Fierce Khalikha Mongols were called in Puranas as Kalid. The later Moghul conquest introduced some Mongols. Iranians and Turks. In the coastal towns particularly of Gujarat Arabs Abysanians and Turks came and sottled in considerable numbers. The Portuguese Dutch and British occupation have but slightly tinged some lower class population in harbour areas and have produced a dwinding number of Eurasians. Even in former days when with wooden ship navigation was hazardous and only a few women could come mixed marriages have been

very few and they have generally lived apart in their own colonies

GOVERNMENT, MARRIAGE AND RELIGION.

Government — Aryans practised constitutional monarchy Their king Rajan was their leader and servant. The king for protecting his realm from foreign aggressions and for maintaining law and order within his domain was entitled to one-sixth of the land produce and the fines imposed on the offenders of laws. Cattle was their standard value and medium of exchange Some taxes were levied on some imports, particularly on Soma (Cannabis sativa) Soma traffickers (Soma vikrayin) became unpopular, for they charged a high price for their commodity, as on it not only royal import was levied. Some had to be transported also from long distance (Caucasus region) and it changed many hands in its long transports and it became withered, dried and often adulterated (Manu 3, 80) Purohita (placed in the front) was the chief minister, protector of the ruling family and the clan and the interpreter of laws, administratative, social and religious. He was the most important functionary of the state. Ministers are the rajakrits—makers of sovereignty Mantri Parisad (the cabinet of ministers) should consist of eight members (Manu - 8 54) which Sukraniti (2, 71-72) mentions as follows (1) Sumantra = minister of finance, (2) Pandita = minister of culture, possibly, the elected leader of the learned professions, (3) Mantrin—the minister of domestic affairs, (4) Pradhāna—the president of the ministers—premier, (5) Sachiva—colleage—minister of war, (6) Amātya—minister of agriculture 7 Pradvivāka = minister of justice, (8) Pratinidhi - elected representative of the families, belonging to the ruling clan Later Duta - the minister of foreign relations held an important office Yuvaraja - the heir apparent and designate had a right to be present in the deliberations of ministry. The king was simply the executive head to carry out the decisions by the majority of the votes of the ministers

Andhaka-Vrishnis of Alpine Yadavas had democratic joint

federal republican (Sangha) constitution Ugrasena was its president Vasudeva Krishna its executive chief Ahuka on the side of the Vrishnis and Akrura on the side of the Andhakas led the Federal Parliament. Krishna complains to his friend Nirada uncle of Parvata, descendants of Kanya Medhitithi -People call it glory But really it is the service to kinsmen that I am performing Privileged to have only half the executive powers, I suffer fully the brunt of bitter speeches (MBh Banti (81 5) Their bitter speeches consume me always as a man twirls firewood for producing fire (6) Though Samkarahana is noted for strength Gadha for princely qualities and Pradyumna for beauty (which means that at least all the adult members of noble families had full francise) still I am without a following (in federal parliament) O Narada (7) Other Andhakas and Vrahms have scheming propensities and they are redoublable being full of pep (8) As for Ahuka and Akrura, if they cast their favorable votes they make him miserable by their demands. And if they are opposed to him, there is no greater misery Either of the courses I do not like (MBh Santi P 81 110). Vrishnis left behind in Mathuri issued in Sunga period (2nd century B C) coins with the symbols of Chakra and half lion and half elephant-the fore parts of the two animals being joined together and placed on a pillar and with the inscription in both Brahmi and Kharasthi-Vrishnir (a) Jajia ganasya trator (Gk Sator) asya = for the protection of Vrishni olygarchic republic Kahatnya (Khatti) Puru kingdom was monarchical, but imperialistic like the Khatti (Hittite) It was a strict military and political organization. It had definite laws and to the auccession to the throne, diplomatic code with independent neighborly powers, relation with vassal states civil and criminal purisprudence. There was not only produce rent, there was also rent on cattle. City (Paurs) magistrates levied one tenth of the goods that came to the market. There were well regulated tarills as fines for criminal offenses. There was a tax on brow ing beer and toverns as well as temple prostitution. There was fixed price for land, cattle and produces. Any one buying land had to dedicate a part of it as a temple in the form of religious endowment. These temples had to be provided with gurls. These girls were wedded to the gods, and as such practiced religious

prostitution. But the income from these temples and religious

prostitution belonged to the state (Janapada).

When Alexander invaded northern India, he found that it was occupied by a number of petty but powerful aristocratic (Gk. aristos = best, Sans alishta = essence drakshārishta = essence of grapes, that is wine Gk Krati=rule kratein=to be strong, Skt kriya-action) republics of Saka origin Buddhist literature mentions the republics of (1) Sakyas (Sakas) who assembled in their Mote Hall (Santtagara) with 500 members at Kapilavastu to transact their state business. It was at such an assembly Prasenut of Khosala (Khasa) sent his proposal to marry a Sakya princess and his son with the Sakya maiden Virudak was received, Ambatha in the Suttanta says. Once, I had to go to Kapilavastu Sākya congress Hall where were a number of Sākyas, old and young, seated in the hall on grand seats Lalitavistāra (ch. 12) mentions Sinthāgār of Sakyagana (republic) consisting of 500 members (2) Kohyas--Kulutas, Koli-who occupied the Kulu valley where their copper coins with Cakia, Syastika and Hill symbols have been found Their allied clan Kunida (Kanets) are found in neighbouring Simla Hills. Their coins had stag, Svastika, Chatres, ara Sign with a trident battle-axe in one hand and leapard kin hinging from the left-hand, (3) Licchavis of Vaisali (Ba-adh) are known as Vajjas (Vriji of Pinini 4, 2, 131) with 7707 members. When Apatasatru's minister Varsakar asked the opinion of the Buddha as to the advisibility of invading the Vajus, Baddha replied Vapis hold full and frequent asnemblies, olong they hold it s point of data to hearken to the word, of their leader? so long min the Vams be expected not to decline but to pro par (Ma). In Jataka (4, 118) Eachebayis of Variali are call I train trepublican rulers i, they are 7707 in number all experience are entitled to rule (right man), they become pro-tent training v ce-president (upo-rijano s, comu inder in chiaf (chia-i ilia i) and transver; bhanday rika k. The releasing any will and in the inhabitants companion of a ali nature of the interest of the had a sestem of trible fortilest one, hereight property to it als no 165,000 According to Atthe Rates of the the land clang a control in the effect of factor on a transcapital to do substated, and there is to all fift of and it is a

matters were discussed, but also agricultural and commercial. and mahattake (a distinguished member) is appointed to be an envoy to speak on behalf of all Lucchavis (Mahayastu 1, 251) The Licchavis of Vaisali heard that the Blessed One had arrived at Vaisali and was staying at Ambapali a mango grove. And they mounted magnificent carriages Ambapali drove up against the young Lucchavis axie to axie When the Blessed One saw the Licchavis approaching in the distance he addressed the brethren O Brethren look at these god like Lucchanis (4) Executive powers were vested in representatives of eight families Attha Kulaka - Ashta) who wore distinctive uniforms of different colours - blue (nila) vellow (pita), green (harit), reddish (manushtha) red (lohita) and white (syets) Even their chariots headdress, shoes had this distinctive colour as their family badge Mallas (Mallos of the Greeks) of Kusinagara and it is to the Mote Hall of the Mallas that Ananda went to announce the death of Buddha they being then is session there to consider that very matter (Maha Parinibanna Sut 6, 28) Mala. Malaya, Malva, is found in the Multan area, which was perhaps their capital after their name. In second century B C they migrated to their new homes to Karkata Nagar in Joypur state via Bhatinda leaving a trace of their existence in Malwai dialect extending from Ferozpore to Bhatinda. Possibly Karkota Nagas and Malas were identical peoples; and Kahudrakas were their allied kinsmen. They had already settled in Malaya, which was named after them. The Malla coins had their tribal name Mala Malaya or Malaya inscribed on them and they bore the symbols of standing hon humped bull, fantail peacock. Malla coins resemble the coins of Ganapati Naga. Mallanaga Vata yana is the author of the famous treatise on saxology—Kima sutra (5) Moriyas (Mura of Paninia Ganaptha, 4 1 151; Moeres of Patala in Sind Maurya Gupta = Moor Copta) of Pippahyana. (6) Balis of Allakappa (7) Bhaggas are the Bhargas of Panini (4 1 178 Sabha 20 10 14). Panini (5,3,115) mentions the following republics (Samghas) (1) Vrika (wolf - Vikarna - Varkana of Darius and Avestan Vehrkan -Caspian) (2) Damani; (3) Trigartta, (4) Yaudhoys (5) Parava (Parai); (6) Madra (7) Vriddi (Vajji 4 L 131) (8) Andhaka Vrishni; (9) Bharga (10) Arjunayanas (Panini

4, 1, 112). Arjunayanas occupied Bharatapur and Alwar area. Their coins of 100 B C had humped bull, camel and Arjunayana jay (victory to Arjunayanas) as symbols. Alexander's army found noithern India occupied by numerous kingdoms and republics The Republics trusted their self appointed magistrates where the people are self-governed (Arrian 12) Kathar with Sankala as their capital on the Ravi was one of them Kathar enjoyed the highest reputation for courage and skill in the art of war (Arrian Anabasis v 22) They made waggon formation (sakata vyuha) against Alexander's army thus obstructing their advance Kathai is the Kathi of the Punjab, the Katha of the Panimi (4, 3, 107), Katha or Kathaka of Yajurveda recension, Kauthuma of Samaveda and Katha-kalapa of Ramayana (Ayodhya 32, 18). In Katha Up, individual (Naciketas) was sacrificed for the collective welfare of the state and family. Neighborly to Kathai was the Sophytes state, Subhuta of Panini (4, 2, 75), close to Sankala Kathas and Saubhutis in contractmarriage do not seek an alliance with high birth, but make their choice by the looks, for beauty in children is a quality highly appreciated. Here they do not acknowledge and rear children according to the will of parents but as the officers entrusted with the medical inspection of mlants may direct, for if they have remarked anything deformed or defective in the limbs of the child, they order it (in Spartin fishion) to be killed (Strabo, 15, 30). The handsomest man among them is chosen

Brahmany devaya (Kumarsva) possibly their war god. Some coins are inscribed with dama (Gk. drachon) Their neighbors Audimbaras lived between Ambala and Kangra. There is an Audumbara clan among the Guirati Brahmins. In their come there is the symbol of an elephant with apraised trunk walking before udumbara tree (Figus glomerata) where there is a trident battle axe with the legend Mahadevasa rana Dharaghoshasa odumbarisa-Vispamitra. On the reverse side there is a male figure with a spear in his right hand. There is a striking resem blance between the Audambara Vispamitra and Azilesia coins Com pulsory adult military training was the rule with the Yaudheyas modern Johiva Rajputs, for which they were called by Panini as Ayudhanvins-military training as the basis of their existence, The country beyond Beas is very fertile living under an aristocratic form of government consisting of five thousand councillors, each of whom furnishes the state with an elephant (Strabo 15 37) The large numbers of laudheya soldiers and the fear of the great imperial army of Nandas of Gangardi (Ganga and Rarh) disheartened Alexander's force and they began to hold conferences and positively asserted that they would follow no further (Arrian 5 25) But in their retreat Alexander's army met with flerce resistance from Oxydrakai (Kshurdrakas) Mallor (Malla) and Sibor (Sibr Kekayas) on the Chenab. Alexander first reached the Mallor Their cities were along the Chenab and their capital was on the Ravi In a siege of the Malloi capital Alexander was severely wounded Mallor were allied with Oxydrakar and their united army numbered about 100,000 The Macedonians lost their heart at the prospect of meeting this army When they found that they still on hand had a fresh war in which the most warlike nations in all India would be their antagonists they were struck with an unexpected terror and began to upbraid their King in the language of sedition (Curtius, 9 4) But Mallas submitted to the veteran well disciplined army of Alexander And they sent a hundred ambassadors who all rode in chariot and were men of uncommon stature (Caspian trait) and of very dignified bearing Their robes were of linen embroidered with in wrought gold and purple. The gods they said were the authors of the submission and not fear Alexander gave orders

for the preparation of a splendid banquet to which he invited the ambassadors. Here a hundred couches of gold had been placed at a small distance from each other and these were hung round with tapestry curtains which glittered with gold and purple (Curtius, 9 7) The united aimy was led by an experienced Oxydrakai general (Curtins, 9 4) Alexander's aimy in their retreat through the Indus was opposed by Abastonoi (Ambasthas=Panini, 4 1 170) Ambasthas adopted the advice of their elders not to fight Other peoples in opposition to Alexander's army were Ossadioi (Vasatis r opposition to Alexander's army were Ossadioi (Vasatis : M Bh Sabha P 52 15,) Patanjali mentions Vasatis along with Sibis 4, 2 52 Musicani (Muchu Karna Kāsikā 4 2 80), and Patala (Haidaiabad of Sind) of Moeres, Mura of Ganapatha (Pauini, 4 1 151), that is the Moors Phegalas seems to be Bhagala of Panini (4, 4, 80), Adrestai is the Arishtas of Panini (6 2 100), the Caspian Aiattas (Rattas = Reddis) on the Ravi Sudra (Chudes) Nanda impirial structure was a centralized government with an efficient army, in addition to other taxes it levied taxes on skins. Maurya empire preferred indirect taxes. It levied taxes on all imports except those which were beneficial to the country, and exports such as weapons, metals, grains and cattle which were needed in the country (Arthasastra 2, 22) It nationalized mining and salt industry. It raised taxes from canals and irrigation works, gambling, wine shops and biothels Asoka's rajukas were kula putras (sons of nobles), belonging to the ruling clan, highly specialized for administrative purposes Marriage - Early exogamous marriage outside his own clan but within the same tilbe has been customary among the Hindus from hoary antiquity Exogamous marriage presupposes marriage by capture from the hostile clans And when the clans are fused into a tribe, it evolves a peaceable mailiage settlement through purchase and barter Romans as a mailiage ceremony used to separate the hair of their brides with the point of javelin (haste cerebris), a reminscence of marrying by capture. In Bengal vermillion is placed on the forehead of the bride as a symbol of ownership through blood shed in the process of capturing and the bride has to put on an iron bracelet, an evolved form of hand cuff through which she

was tied to a tree or post to prevent her escape. The Hindr bridegroom goes riding on a horse with a sword by his side and presents a sword to the bride The Austrio father usually selected for his son a bride who must be either his wife s mother s brother s daughter s daughter or his wife s mother's sisters daughters daughter (who are outside of his own clan, but within the same tribe) and binding betrothal takes place even before the birh of the girl. Cross consin marriage is still customary in tSouth India where Austric base is very strong It seems therefore likely that the Hindus adopted the notorious early marriage customs from the Austrics with some modifications, Among the Hindus particularly in Bengal suggestive saucy talks, coquetry and furtations are still prevalent and freely enjoyingly indulged in between the elder brothers wife and her husband a younger brothers; between the husband and his wife a sisters. Among the Todas all the brothers marry all the sisters. So this flirtations custom might have originated from the Todas or directly from the Caspian fraternal polyandry and polygyny Nayar Cambodian Bisaya maids had similar ritual defloration Thirandukali by Manavalam) like serpent shrines (Nagatian Kabu) as among the Khasis But even social intercourse courtesy are customarily forbidden the wife and her husbands mothers brothers. The taboo indicates that once the maternal uncle enjoyed the conjugal rights over his nephews wife; this oustom prevailed among the Caspian Arattas (Rattia Reddis) Aryans usually gave their girls in marriage in receipt of gifts. But some time princesses were allowed to select one among their suitors for his excellence in archery Achaean Penclope promised that which ever of her suitors could bend the great bow of Odysson, and rival his unerring aim in shooting straight an arrow through twelve axe heads (central handle holes of double bladed axes) set up in a row him she would take for her next lord. The Syayanbara system of marriage through the exhibition of archery and through the selection by the maiden was introduced by the Caspians in India Kaurava (of Kamboja Kuru descent) Devabrata Bhisms abducted Kasi (Kassite princesses) in their Syajambara ceremony when eldest princess Amba solected a

Salva (Caspian) prince for his excelledce in archery (MBh 1 102) Madra (Manda, a Cimmerian tribe) princess Vijayā chose Sahadeva, also born a Madra princess, brother of Judhisthira for his excellence in archery. Sāvitii, daughter of Asvapati (title of kings of Madra and Kekaya) of Madra selected Salva prince Satyavan as her husband, for selection by the Asvapati explained to Nārada was their tribal custom And Savitri's mother was a Mālavi (Malla-a Caspian tribe, MBh, 3 293) Koli (Kuluku) princess Gopā custom selected in her Svayambara Sākya (Saka) archon's son Gotama (Buddha) Gandharva system of morriage by mutual selection was introduced by the Palae Alpines and Alpines Marriage by abduction especially of the maidens of a different tribe was prevalent among all primitive races. But the Assyrians generally married the girls of their enemies by capture (Asuia) and forced their defeated kings to surrender their princesses in marrirge to them as a symbol of their allegiance and submission Mairiage in the royal families in India was often primarily based on dynastic treaty alliances Caspians, especially the Saka branch of them, practised fraternal polyandry and their sexual morals were loose Herodotus (4 104) mentions Scyths (Agathysees) have their women in common in order that they may all be brothers and that being so nearly related they may feel neither hatred nor envy against each other. Massa-Getae marries a wife but all the brothers, relatives and friends use them in common The same custom prevailed with the Thracians and was practised by Saporogia Kossaks and Gilyaks of eastern Siberia Strabo (16 4) says of Arabia that community of goods exists between all the members of the same family, but there is only one master who is always the eldest of the family. They have only one wife between them all and he who can forestall the others enters her apartment first, and enjoys her, after having taken the precaution of placing his staff across the door They have even commerce with their own mothers Fraternal polyandry of the ancient Arabs is also attested by Arab writers, particularly Bokhari (6. 127) according to whom the number of polyandrous husbands was not allowed to exceed ten Besides this, various customs of more modern date, as for example, the passing of the widow

by heritage, to the relatives of the husband seem to arise from it. In the present day the partial marriages by which the women of Hassimeh Arabs engage themselves for some days of the week only while other days they are free to sell their favours to any one they please strongly resemble the mot marriage of the Ancient Arabs by which the conjugal union is only contracted for a fixed time and the woman does not leave home and her tribe preserves the right it has over her and her children do not belong to her husband. Captured women often remained common to a group of relatives. The ancient Arab women of Caspian origin not only enjoyed sexual licenceand polyandrous unions they also accompanied their husbands in combats and they prided themselves in making necklaces and bracelets for their ankles with the mutilated noses and ears of their wounded or dead enemies (Ch. Letourneau, -The Evolution of Marriage P 84 88) Arabian polyandry has been confirmed by Sabian and Minacan inscriptions. Caesar-(De bello Gallico) speaks also of the polyandry of the ancient Britons of Caspian origin By tens and twelves the husbands have their wives in common, especially brothers with brothers and parents with children" Strabo (4 4) speaks of the Celtic (mixed Caspian) population of Irene (Ireland), have public commerce with all kinds of women oven with their mothers and sisters Even in the 16th century Granches (Caspians) of Canary Islands were still polyandrous, but amonst them the husbands did not number more than three who waited upon them alternately by months Polyandry existed among the Maoris (Mon khmer mixed Caspians) in New Zealand and Marquesas, but restricted to certain noble families only Among other Polynesians especially in Tahiti and Gilbert Island sexual morals are very free in Caucasus region polyandry was practised among certain tribes. It is still practised among the bestimes. Todas and in Tibet where Caspian factors are betrayed by tall and heavily framed bony people with fair complexion prominent nose and delichoco The tall Khasas of Dehradum region who show still Caspian traits practise fraternal polyandry And the married women when they frequent their parental abodes and especially during festivals indulge in free amours Married

or unmarried daughters even pay off the debts of the parental hospitality by granting the favours of their physical charms to the guests like the Polynesian buxom maidens Nagini damsels who were generally of Saka origin are especially endowed in Hindu Myths with voluptuous disposition of seductive manners, ever youthful and charming, fond of music, dancing and amoious spoits Among the Reddis (Aiattas - Rattas) it was the custom that relatives of the birdegroom, particularly his cousins, enjoyed conjugal rights over his bride According to ancient Hellenic legends Oedipus, son of Cadmus of Tyrins (Mycenaenans), mailied his own mother Jacosta It is said that women were common to Tyrinians Licchavis of Vaisali and Sakyas of Kapilavastu mailled their own adultery was punished Mariages between brothers and sisters are common among the Maoris The unions between brother and sister, even son and mother, were practised by Parni Parthians (14 E B Persia) The marriage of half-brothers and sisters was allowed in Athens like the Pitrikanyās in Puranas

Religion -The Vedic God Marut has been derived from Amorite national and war god Martu Martu became gradually transformed into Kassite Maruttas, then Marutu, Marutuku, Maruduk and finally Maiduk The ancient wai ' transformed god of the Romans was Martis, a name of planet Mais, coilesponding to the Gk war god (M) Ares (Mars) It is evident that Marut can be traced back to the Indo-Aryan source It may be also that the Hindu names of the week are of the same source The ancient Greek names of the week have been found written in Pompeir before its destruction on a wall by a boy who was learning Greek Gk Helion (sun hemera (day) -Skt Ravi Vara Selenes (the moon) hamera = Soma vara = monday, Areos h = Ares = Martis = Mars = Fr Mardi = Budha vāra, Heimon h - Heimes = Mercuiy = Fr Mercredi = Mongala vāra, Dios h = Zeus = Fr Jeudi = Brihaspati vāra, Aphrodite - Venus = F1 Vendredi = Sukra vaia Kronon h - Saturn = Sani vāra But Babylonian Shamash = Gk. Helion = Roman sol = Surya Sin - Selene - Luna - Soma Marduk - Ares - Mars = Mangala Nebu - Hermes = Mercurius - Mangala Marduk -Zeus = Jupiter = Brihaspati Ishtar = Aphrodite = Venus = Sukra

Ninib⇒Kronos-Saturnus-San: The Vedic Indra god of thun der and lightning has originated from Khatti weather god Indara which has been invoked even in a treaty with the Egyp Rameses and inscribed there as Intry Centanris, a southern constellation, whose ascendency takes place during the summer solutice has been mythologized into the Indra the summer solution has been mythological into the indra legends At Arisian Tope a Khatti basrelief shows a bearded Khatti god with dagger and club is combating a many headed serpent coiled in the waters. The serpents open mouth and fangs are thursting to strike. In Hellenic mythology Hercules crushed Hydra—the sea serpent But Hydra is adjacent to Centaurus in southern hemisphere. Varina Ouranos—of the and the Khatti (v)Aruna the sea and the heaven the summer solstitud sky seems to be Indo-Arvan heaven the summer solsting say seems to be into-Aryan Aruna as the heaven and the sea god plays an important part in Khatti myths In Hindu mythology because the summer solstice is the period of the monsoon, the solstitud sky has been regarded as the reservoir of ocean water and later associated with ocean itself Nasatya (Avestan Naunghaithva) is of Khatti origin. According to Sidhanta Kanmudi na satya = asatya , na asatya Nisatya (not untrue) But the Pegasus legends are Indo Aryan Possibly the names of Pegasus and Equulus as Asyms have been countd in India or Iran Mitra as the winter solstitud sun is of Vitanni origin And the Mitra cult is found well developed in Avestan legends. In the Vedas through Mitra is associated with Varuna, it is an unimportant deity The Hindu god Narayana, now represented by ammonite (fossil cephalopod shells) represents the Khatti god Inar (Gk aner Skt nars-man) Garura, representing Aquils 18 the double-headed eagle (ztkharija) of the Khatti standard, Khatti war god Teshup in conical cap and kelt with right hand raised to throw his club is the Hindu Kesava (a name of Krishna) representing Hercules, a northern constellation At the time of vornal equinox when Hercules begins to reso in the sky the khattis celebrated it with joys meriments and great sexual licence (Hindu Holi). And when after the time of summer solstice (June 21) the Hercules begins to decline, there was another festival (Hinda Rutha Jäträ) Hindu Siya and Sivini (Hara Pärvati) are based on the Khatti bearded Baši with a tali

pointed cap on his head holding a trident (trisula, Baby Ramnan with a lightning fork) in his hand, embracing the mother goddess Ikksari (Isvari=Ishtar), representing Gemini (J K Frazer-Adonis P 105, 134) Sometime the mother goddess lides on a lioness (Cybele=Sivāni), and Bāāl is attended by a bull (Taurus: Nandi) The worship of Baal (Bholanatha) and his consort Belit (Mylitta) was attended with great sexual orgies, they being feitility deities Sexual congress the ancients thought was the best form of worship of the fertility gods women priestesses worshipped the god by sexual congress with priests whom they thought represented the deity. In Babylonia every woman had to submit to sexual union with a stranger at least once in her life, in the temple of Mylitta, and the fee she received was offered to the deity. It seems therefore that religious prostitution originated at a time when marriage did not yet develop as a social institution and women remained as communal property and sexual unions were promiscuous Baal was represented by a meteorite stone, and later by a pillar of stone. It appears that Ball became Cabeiri (Siva), a Phrygian deity In Macedonia and Beotia (Mycenaeans) it was called mighty god, (megalor theor) The cult included worship of the power of fertility, symbolized by the male organ of generation (14 E B Caberri) Women personated as goddesses The priestesses were marijed women who were required to take an oath that they had regular sexual congress with their husbands (14 E B: Mystery) It was later identified with Dionysiac mysteries and orgies Sabazius (Siva deva) was another Thracian deity, possibly a local variation of Caberri Sabazius was frequently identified with Dionysus and sometime with Zeus His worship was closely connected with Cybele (Sivāni) and Attis and was mystic in character His ritual and mysteries (Sacia Savadia - Siva deva) gained a firm footing in Rome during the 2nd century A D. (14 E & Savazius) The symbol of Sabazius was the snake (Skt Bhujangadhara - Serpentarius = Ophiuchus) Armed female attendants, amazons, guarded the temple entrances of Cybele in whose honor orgastic rites and revelues were celebrated Before Scoto-Irish Cail (Kali) anch a black boar was offered and before Gaia a black lamb In Ireland Caileac was the mother of Danan (Danaus), gods and peoples (D.A. Mackanzie-Myths of Crete

P 68) The said the soul of mortal man recoiled to view Black Ann ys eye so fierce and wild features livid blue glared in her visage whilst the obscene wasst warm skins of human virtue close embraced (O J Billson Country Folklore of Leicester). Irish Shelahnangs There was a black statue of Demeter at Phigalia. The German Earth Mother was Nerthu (/ Nrit-to dance Northu = nartaki = danseuse. Kali is depicted as dancing on the prostrate body of her consort Siva Nerthua consort Freya's image at Upsala was provided with a huge linga cum ingenti priapo) Siva is called Natesvara Mahinata, great dancer Siva in India is Ball represented by lingam, a phallic stone pillar and Devadasis married to the god (Gk. hirodoula) = temple slaves) are the prototypes of Khattı and Babylonia. In February there was a great festival of Bank when Gemini is in the zenith and Virgo at horizon and the Milky Way is in the central position (Siva Chaturdasi) Cybele (Sivani) was called the Great Mother of the gods (Mater Deum Magna) She was the universal mother (Jagatmata) of gods and men She was called the Mountain Mother (Parvati) for her sanctuaries were almost in variably upon mountains and her companions were hone (Leo) and she rode on her (14 E B Great Mother) Human sacrifices were made to her She was called Virgin (Virgo - Skt Kumari) Artempasa (Gk Artemis) by the Tauric Sakas who sacrificed to her all ship-wrecked Greek prisoners (Herodotus 4 103) Even Achaean Agammenon's daughter Iphigenia was led before the altar of Artemis to be sacrificed and priest Calchas unsheathed his sacrificial knife Carthagians sacrificed to her (Tanit) with the fortility symbol of crescent over a reversed disk or a triangle and her consort Bial Moloch children in times of emergency their skulls have been found in her temple at Carthage IV G M April 1924) Saktas sacrificed prisoners and virgins before the altar of Bhavini and Kalı Sakas have introduced the rite of drinking human blood mixed with wine in the human skull before Bhavani her consort (Mahākāla of Unain) to whom human sacrifices were made Ancient Germans and helts (Livy as drinking cups. 23) also used skulls of their enemics Vedio Nana (J 112, 3) as mother is derived from Kassite mother goddess Vana. Nank was the goddess of love of the Sakas Vedic Rudra is of kassite origin On the hassite

boundary stone as in Egy Dandeia there is a winged (Aquila, a noitherly neighbour) Centaur drawing a bow (Sagittarius), with a double head, one human and another that of a dog (Canis Major on the opposite side), the animal bull or horse having an elect penis being attacked by a scolpion (Scorpio a southernly neighbour) and a double tail, one of bull and another of scorpion. From this Kassite god, Asur of the Assyrians, Ahura Mazda of the Zoroastrians and Rudia of the Vedas have been developed The other figures on Kassite boundary stones are the Goat-fish (Vedic A₁a Ekapād = Capiicoinus) a coiled serpent (female dragon Tiamat = Hydia, Hindu Manasā Egyptian Buto) and a stonepillar with rounded polished top (phallus = Hindu Lingam, R P Vol 7 P 45) Tiamat (Taimātā Av. I 50 13) a female diagon, goddess of darknass (timila) and chaos elevated one of her broods, Kingu to be her consoit after her husband Apsu was killed by Marduk when she threatened dominating the heaven Pushan, represented by Auriga, seems to be of Caspian origin for Pushan has been invoked as mother's second husband and sister's lover (Matur didhishum svasur jarah, 6 55 5), and marriage with mother and sister was the custom of the Caspians Later Pushan became Indo-Aryan, as it is indicated by Gk Pan and Lat Faunus Biges (Bhrigus) and Bessi (Vaisya) maidens were given free sexual licence until their marriage, and chief deities of the Briges and Bessis were Dionysus (Deva-nata), god of wine and drinking, Ares (Ari-ndama), Bendis (Bandhyā, Bhāigavi, names of Duigā Altem is, 14 E B Thrace) Scythian Aphrodite was Argimposa (Aljuni=harlot, Pusyā=Silius. indentified with Isis) Ishtar (representing the Virgo, sometimes also the Venus for which Hindu Isani is called Tara-stari. called Tammuz (tamas = obscurity of the sun = the winter solstitial sun, whom she rescued from the grip of death, withering of vegetation in the winter, and revived him in the spring)-brother lover and son Isis (Virgo) similarly was the sister, wife, mother and daughter of Osiris (winter sun) Isis -Come thou to thy wife in peace, her heart flatters for thy love 1 am thy wife, made as thou art, thy elder sister, soul of her brother. Come thou to us a babe Thou art as a bull of the two goddesses—come thou child growing in peace, our loid, come thou to two widowed goddesses -Oh child, lord, father Osirs (The Burden of Isis). Babon

(from whom baboon has been derived was an Egyptian and Babylonian ape deity like Hindu Hanumina. Vedic Surys the sun is equivalent to Kassite Surians The snake Crete (Hindu Manasa) has goddess of high headdress of spiral pattern round which a serpent has enfolded itself and apparently its head which is missing produced in front like the urious in the Egyptian beliets of royalty another snake is grasped by the head in her right hand and by the tail in the left and its body lies wriggling along her outstretched arms and over her shoulders, forming a band which narrows at her want and widens out below it. These serpents are of brown colour with purple brown spots. The goddess is attired in bell shaped skirt suspended in her wasp waist, and a tight fitting packet opens in front to display her ample breasts A stiff middle entwins her narrow waist. Her skin is white her eyes and hair dark (Evan's finding at Knossos) At Palaikastra in Malta Cro-Magnon terracote figurines with alim waist and highly developed hips dancing round a snake goddess with snake in one hand and dove in other have been found. In a cave at Corul near Lerida in Spain a quaint painting depicts several females with waspwaist and very broad hips dancing round a nude male figure. and a phallus has also been discovered (D A. Mackenzie-Myth of Crete P 80; Ge (Vedic Go-Prithiv) was identified with earth snake. The bell mouthed skirt of knowes is similar to that of Cro-Magnon women depicted in the Aurignacian caves Auri gnacian hunters were the first using bows and arrows. Waist tightening may have survived from the hunting period Snake girdles were used in Knossos Zeus was son and husband of Rhea (Great Mother) as Adonis was lover and son of Aphrodite (a Caspian custom) Bull worship may be traced to the same source. Minotaur the Cretan god had the human body with bull a head, and human sacrifices were offered to it Danans (Danaus) introduced bull worship in Palcatine. Varasimha (Av Nairyosangha) is the Khatti bicephalus sphinx, combining the cranium of man and hon found at Carchemish, l'hebin Sphinx-a winged lion with female bust and the wingless male Sphinx-andro-sphinx-and Shekmet of Egypt. Mycenseans had the lions gate. A lion a bate has also been found at Boghas kuiew Khatti Teshup represented Hercules the wielder of club

on his shoulder (Hindu Gadadhara). He had another name Katap, Teutonic Gudā (shortened form of Gadhādhara), from which Germanic Gott, and English God have been derived At Ras Sharma, near Beirut, in the state of the Alauites (ancient Luites an allied Khatti clan, Luites also settled in Iranian Luistan) in a 14th century B C tomb of bronze age, an image of bionze Teshub (Kesaba) has been uneaithed the god is of proud upright bearing, with his raised hand he is about to hurl his club against a foe, his high conical hat is plated with gold and a beautiful wrought mask of gold covers his face, his body is protected by a silver cuirrass; his right arm is adoined with a golden biacelet Next to it was found an elect nude golden statue holding lotus flowers in each hand. In the soil around these valuable objects lay the polished beads of a necklace of piecious stones In the faithest corner lay an exquisitely beautiful ivory relief carving Hei torso is nude with two fine globular breasts. Her face is charming and seems to smile, delicately it is oval in shape. The nose is long, fine and curved. But the lips are thick. The head is brachycephalic. She has a necklace and she wears a tiara over the wavy ringlets of hair on her head Her hips are very broad and from which falls a much pleated skirt with many ruffles In both of her hands she holds aloft ripe ears of barley or wheat, on each side of her is a rampant goat as if to seize the barley ears (Louvre Museum N G M Oct 1930)

APPENDIX I

Constellations between 20-30 Longitude

Month	East	Meridi	an	West	North	h So	uth	
Nov 15	Gemini	Pegasus,	Pisces	Lyra,	Sagitta	rius Ca	aseopea,	Cetus
Jan 1	Cancer	Taurus	Ca	oricorn	us Pers	eus	0	rion
Feb 15	\mathbf{V} ırgo	Gemini	Pisc	es	Auri	ga	Can	nis Mi
April 1	Arcturus	\mathbf{Leo}	Tau	rus	Lynx	-	Hyd	ra
May 15	Hercules	$\mathbf{V}_{ ext{irgo}}$	O110	on v	Ursa	Major	Cer	ntaurus
July 1	Cygnus, I	Delphinus	Boot		Cancer,	Draco	Scorpio,	Aquila
Aug 15	Pegasus	Hercules	Virg	o	Draco		Sagittari	us
Oct 1	Ares	Cygnus	Serp	ens	Cepheus	5	Capr	cornus
Dec 1 at 7 p.m = July 15 at 4-30 a m = Sept 21 at 12 p m								

ł	N	D	Ε	X
---	---	---	---	---

G-1-1		
Subject	Page Subject	Page
Abhiras	132 822 887 Khatti	55 68 93 105 189
Agricultur	6 91-95 Kinnara	38 40 168
Alpines	60 181 187 143 Kuru	152, 165 805
Amara	55 161 Kushans	9 326 ود
Animals	67_80 Marriage	176 213 349
Aryans	58 120 170 Matsya	78, 136 184 256
Avars	61 182 Maurya	89 315
Bhrigus	85 157 168 166 Metals	9, 108
Caste	199 Mitanni	56 105 141
Country	109-120 Monkhmer	38 42 292, 299
Dānavas	39 64 109 Myths	223-290
Diseases &		120-170
Earth	3, 7 23 329 Plants	80 91
Family	17d 185 Pulssta	39 45 64, 137, 165
Gadhi	42, 49 54 158 Purus	105, 140 145
Gändhara	110 268 299 Physiology	of Bharatvarsa 1 27
Governmen	nt 843 849 Racial Com	ponents 200-848
Gupta	40 315 Sakas	40 59 166 320
Gurjara	53 62, 182, 340 Savaras	
Hittite		15 128 203 311 319
Huns	61, 131, 329 Tajika	50 156 161 al6
Ikahvikus	145 155, 804 Vaisya 6	0 136, 139 01 203
Ka	109, 273 Vakataka N	ALAS 326
Kassites	41 49 148 161, d02 Indayas 6	1 182, 139 307, 348
Kasyapas	38 78 169 'Yuechi	59 310 823
1 l. L	the De Donal	

Abbreviations — Rv — Rigvoda where no sign is given Rv is indicated Vaj— Vajasaneya Samhitā Ts — Taittiriya Samhitā; AB = Artareya Brahmans MBh = Mahlbhārata; EB — Encyclopaedia Britanica (11—11th edition | 14—11th edition); N C.M = National Geographic Magazine; h P — Records of the Past; A R.M = Arya Manjuari Mulakalpa; Av — Atharraveda I L.N — Illinstrated London News. Rāma + Chāru = Sovan (14.2 44 11 150) Urmilā + Saktipada (126 39; 28,240) — Rathā (e 10, 43 196 50) Annijā + Sukupāda (126 34 19 10 17) — Rini (26 19 43; 12 9 49) Pramilā + Gopāla (6 5 44 23 151)

Published by B. K. Chakrabarty of Mjayakrishus Brothers 41 Vissanusia Road Calculas, Printed at Sakti Priss, 27-J B. Hart Chose birest Cal uits by Alli Kimar Bose B.A.

BOOKS BY AKSHAYA KUMARI DEVI

まちょぎょくない あるべ -Pilgrim's India, Vol. 1 Adentifican or interest this end percent to end this of the length is an easy reading" -- Prava life a What it a 32 12 En 12, 1 -Female Seers of Ancient India -Ghoshi-Sani-Vami-Girge -Mutters - Imbigale -Salia - Ind sam Middle i-neth original texts 32 Page . 1. 1 -Quintessence of the Upanishads Introduction-Panthering-Money, Manager and Matter in A to the inter--with original teats to Post , 12 4 -The Fundamentals of Hindu Sociology -Social Organization-Ada imparature S, Am-Ilibical Principles with original texts 42 Parts 35 \$ -Essentials of Hindu Philosophy -Purva Mimimist-Vedanta-Nyli, i -Vingana -Sinkhi i-Vigit-Charvala - with original texts 12 Pag 5 1 2 .-Renaissance of Hinduism 51 P. W. A. S -The Vedic Age with original texts: -The Vedrs-The Mountain .- The River .- Country e-People - Six and Dress-Food and Drinks-Play, and Sport, -Health and Sickness '. Social Life in Ancient India 39 Pages, As 4 Ancient kingdoms and kings-Tride and Banking-Dilustion and the Universities—Science and Philosophy—Social Custons, and Manners. 3 —The Evolution of the Rigyedic Pantheon 212 Piges, Rt. 1. Based on Constellatory Configurations. "Few Hindu women of our times have produced such a scholarly book," - Moder i Review, Oct 1938 9 —Gautama the Buddha 150 Pages, Re. 1 "The most informative life of Buddha". - Prabuddla Birmia (in. 36. "There is a large body of detailed information in the book. The style is simple, the treatment lifed and the reader is sure to be delighted with the perusal,"-Modern Review, May 1939. 0 - A History of Sanskrit Literature 180 Pages, Re 1-8 "It serves the need of those who want to have in handy form a complete account of the literature and an exhaustive bibliography of books relating to Indian culture and civilization "-Aryan Path (Nov 39), 'Her scholarly interpretations of the Vedic and post vedic schools of thought, and her exposition of the ancient Aryan civilization, culture and literature will be appreciated by all,' - Prabuddha Bharata (April 1940) 'The author shows great erudition"-New Review (September 1939) 'Full of information. A huge quantity of facts and figures has been compressed into a strikingly small volume," - Modern Review (October, 1910) 31.- A Biographical Dictionary of Puranic Personages P. 72. Re. 1. "It is a serious and solid work and deserves perusal by students of ancient

"It is a serious and solid work and deserves perusal by students of ancient history" – Modern Review, Sept 1943 'In the twentytwo sections that comprise the topical analysis of Puranic Personages, a synthesis of various mythologies is attempted with credit," Adyar L. Bulletin.

BOOKS BY CHANDRA CHARRARRETY

Food and Health 214 Pages, Re. Composition of Foods-Nutrition-Fasting Cure- This is a useful guide t to who wants to understand the principles of dietetics and the food value of e various articles of diet used in this country "-The Hindu Principles of Education (112 Pares) As. "It is a useful contribution to educational literature,"-I Remove Hindu Social Polity 290 Pages Re 1 Physical Geography-Ethnic Elements-Myths-Language-Scripts-Casto-Social Organization. It is a storchouse of historical mate

rials.' -Modern Review I -Ancient Hindu Medicine

Anatomy-Physiology-Pathology-Diseases and Diagnosis-Surger The author has done a service to his country by writing the useful book. - Modern Review

100 Pages Re. i -Race Culture Racial Elements in India-Principles of Heredity-Selection of Mates-Birth Control-Contracepuves-Sexual Hyglene. It is a well executed piece of work and would amply repay perusal."-Modern

Remen 3.-The United States of America

208 Pages Re. 1 "It is written out of an enormous amount of knowledge nearly of all which is singularly accurate, -N Y Times 93 Pages Re. 1 Western Civilization

(176 Pures illustrated) Re. 1 Malaria The writer has written comprehensively on the subject. The book

will prove useful to medical students and the general public."-The Indian Medical Tournal 115 (Pages) As. 8) -National Problems

) - The Common Indian Plants (186 genera, 1200 species) 112 P Re. 1. It is a highly useful reference work for students of Indian medical lore, Hindustan Review August 1938

275 Purer Re. 2. The Origin of Christianity -Historical Relation between Buddhism and Christianity-The Life of Jesus-The Canonical Parallels "The reader fortunate enough to obtain a copy of this book has a prospect of a real intellectual treat".

-Truth Secker N } 300 Puris Re. 1 4 :-The Origin of the Cross -Sex Worship in ancient countries. This is a book of parmament value" Truth Seeker N 5

(Out of Print) 1 - Hindu Materia Medica (Out of I noth 1.—Endocrine Glands 1.—Endocrine Glands 1.—Home Medicines for Common Diseases Inc. TALL JURE AL F i.-Dyspensia and Diabetes 32 / Jul 14 + / -Infant Feeding and Hygiene

24 Puges As 1 L-Social Progress)-National Reconstruction-India in World-Politics-Th. Political Outlook-Hindu Swaraj-Social heforms, 126 Pance Re. 1

625 Pager Rs. 5